JED-B0021-ISUG-R1.1

Input (Scan) Subsystem User's Guide

for

Joint Engineering Data Management Information and Control System (JEDMICS)

Release 2.5.2

Contract Number N66032-89-D-0003

l

p

12005 Sunrise Valley Drive
Reston, VA 20191-3423

Table of Contents

List of Figures v

Preface vii

1. Introduction to JEDMICS 1
   1.1 System Overview 1

2. Aperture Card Scanner 5
   2.1 Description 5
   2.2 Operating Procedures 7
   2.3 Setting Scan Parameters for Interactive or Batch Scanning 11
   2.4 Changing Hollerith Data Using the Modify Button 19
   2.5 Entering Indexing Data 19
   2.6 Scanning Accompanying Documents 22
   2.7 Customizing *.ini* Files 23
   2.8 Interactive Scanning 25
   2.9 Batch Scanning 30

3. Large Format Scanner 33
   3.1 Description 33
   3.2 Operating Procedures 34
   3.3 Loading a Drawing 38
   3.4 Setting Scan Parameters 39
   3.5 Setting Scan Parameters on the Vidar 6220 42
   3.6 Setting Scan Parameters on the Vidar 4250SV 46
   3.7 Entering Indexing Data 48
   3.8 Scanning Accompanying Documents 52
   3.9 Interactive Scanning on the Vidar 4250SV Scanner 52
   3.10 Interactive Scanning on Vidar 6220 Scanner 56

4. Dual-Sided Page Scanner 61
   4.1 Description 61
   4.2 Operating Procedures 61
   4.3 Loading Documents/Drawings 66
   4.4 Scan Parameters 66
   4.5 Entering Indexing Data 71
   4.6 Scanning Accompanying Documents 74
   4.7 Interactive Scanning 75
   4.8 Batch Scanning 78

Appendix A.—Dialect Maps 83
Appendix B.—Correcting QA Flags 193
Appendix C.—Setting Offsets on the Aperture Card Scanner 197
Appendix D.—Care and Maintenance 207
Appendix E.—Troubleshooting 215
Appendix F.—JEDMICS Field Descriptions 227
Appendix G.—Glossary of Terms 233
Index 249

List of Figures

Figure 1.—JEDMICS System Overview 1
Figure 2.—JEDMICS - Photomatrix V200 Aperture Scanner Screen 8
Figure 3.—HSACS V200 Scanner Logon Screen 9
Figure 4.—V200 User ‘USER01’ Screen 9
Figure 5.—Configuration Screen 10
Figure 6.—Scan Parameters Screen 11
Figure 7.—Scan Parameters Screen 14
Figure 8.—Unclassified Card 15
Figure 9.—Window Size Settings Screen. 15
Figure 10.—Save Scanner Settings Screen. 16
Figure 11.—Browse Screen 17
Figure 12.—Recall Scanner Settings Screen 17
Figure 13.—Indexing Data Screen 20
Figure 14.—Interactive Scan Screen 26
Figure 15.—Interactive Scan Screen with Hollerith Data Displayed. 28
Figure 16.—Duplicate BCN Screen 29
Figure 17.—PRC Viewer Screen and JEDMICS Interactive Scan Screen. 29
Figure 18.—Batch Scan Screen 30
Figure 19.—JEDMICS-VIDAR Large Format Scanner Screen. 35
Figure 20.—Configuration Screen 36
Figure 21.—JEDMICS-VIDAR Large Format Scanner Screen. 37
Figure 22.—Vidar Scanner Logon Screen 37
Figure 23.—Scan Parameters Screen on the Vidar 6220 Scanner 39
Figure 24.—Vidar 4250SV Parameters Screen 41
Figure 25.—Vidar 6220 Keypad 44
Figure 26.—Save Scanner Settings Screen. 44
Figure 27.—Browse Screen 45
Figure 28.—Recall Scanner Settings Screen 46
Figure 29.—Vidar 4250SV Parameters Screen 47
Figure 30.—Vidar 4250SV Keypad 47
Figure 31.—Indexing Data Screen 49
Figure 32.—Interactive Scan Screen (Vidar 4250SV) 53
Figure 33.—PRC Digital Image Viewer Screen. 55
Figure 34.—Interactive Scan Screen (Vidar 6220). 56
Figure 35.—Configuration Screen 63
Figure 36.—JEDMICS TDC DS-2600 Page Scanner Screen 64
Figure 37.—TDC Scanner Logon Screen. 64
Figure 38.—TDC:User ‘user ID’ Screen 65

Figure 39.—Scan Parameters-Indexing On Screen 67
Figure 40.—Scan Parameters-Indexing Off Screen 67
Figure 41.—Scanner Settings File Selection Screen 69
Figure 42.—Browse Screen 70
Figure 43.—View File Screen 70
Figure 44.—Scanner Settings File Selection Screen 71
Figure 45.—Indexing Data Screen 72
Figure 46.—Interactive Scan Screen 75
Figure 47.—Interactive Scan Screen with the Single-Sided Scan Parameter Setting 76
Figure 48.—Interactive Scan Screen with the Double-Sided Scan Parameter Setting. 77
Figure 49.—Duplicate BCN Screen 78
Figure 50.—Batch Scan Screen 79
Figure 51.—PRC Digital Image Viewer Screen. 81
Figure 52.—Batch Scan Screen 81
Figure 53.—Scan Parameters Screen 85
Figure 54.—Window Size Settings Screen. 199

Preface

The *Input (Scan) Subsystem User's Guide* provides operating procedures for each of the input devices used in the Joint Engineering Data Management Information and Control System (JEDMICS).

Intended Audience

This guide is written for individuals who perform the following activities:

- Scan aperture cards
- Scan A through E size engineering drawings
- Troubleshoot and perform routine maintenance

Using this Guide

This guide is organized into four sections and seven appendices.

Preface
Describes the purpose of the guide, its intended audience, typographic conventions used, mouse, and keyboard conventions.

Section 1. Introduction to JEDMICS
Presents an overview description of JEDMICS and identifies the devices that comprise the Input System.

Section 2. Aperture Card Scanner
Describes how to set scan parameters, how to view and alter index data, and how to scan aperture cards in batch and interactive mode.

Section 3. Large Format Scanner
Describes how to set scan parameters, enter index data, and scan drawings in various sizes and media.

Section 4. Dual-sided Page Scanner
Describes how to set scan parameters, enter index data, and scan in interactive or batch mode.

Appendix A.—Dialect Maps
Provides detailed information on each of the aperture card dialect types supported in JEDMICS Release 2.5.2.

Appendix B.—Correcting QA Flags
Provides guidance for correcting quality assurance flags.

Appendix C.—Setting Offsets on the Aperture Card Scanner
Describes how to set line and pixel widths, and line and pixel offsets.

Appendix D.—Care and Maintenance
Provides routine care and maintenance information.

Appendix E.—Troubleshooting
Describes problems and solutions that you may encounter while scanning.

Appendix F.—Field Descriptions
Lists the fields on the Indexing Data screen.

Appendix G.—Glossary
Provides a list of terms and abbreviations used in this guide.

Documentation Set

The documentation set for JEDMICS Release 2.5.2 consists of the following five documents:

- *Input (Scan) Subsystem User's Guide*
- *Graphics Display Workstation User's Guide*
- *Data Integrity Control Workstation/Engineering Graphics Display Workstation User's Guide*
- *Intergraph® Workstation User's Guide*
- *System Administrator's Guide, SGI Challenge/IRIX™ Host*

The Output Subsystem User's Guide for Release 2.5 is still correct and is not being re-issued.

Refer to these documents to find additional information about a specific procedure or device not documented in this user's guide.

In addition, a *Software Installation Guide* documenting the scripts and procedures for installing JEDMICS software on all JEDMICS devices is provided to the site system administrator at the time of installation.

Related Documentation

- *Productivity Edge™ Viewer User's Guide*

Typographic Conventions

Certain conventions are used in this guide to help you locate and understand the information.

Typeface	Meaning
Times New Roman bold	Used to emphasize information, buttons, or commands you select or type. For example: select **Scan>Index data**.
Times New Roman italic	Used for file names or manual titles. For example: *v20set.ini*.
`Courier New`	Used to display a computer-generated response or display. For example: `Validating batch number...`
greater than symbol >	Used to separate a sequence of commands to be executed. For example: Scan>Index data.
braces { }	Used to indicate variable data. You replace these variables with the appropriate string or value.
UPPER CASE	Used for JEDMICS device names, environment variables, and status codes. For example: ADL or AUX devices; IMS_HOST variable; and RREL or NSCN status codes.

This document also includes highlighted information in the form of notes, tips, cautions, and warnings. They are used as follows:

NOTE: Indicates a piece of supplemental or background information. May also indicate a case where site customization could cause the documentation examples to differ from what is displayed on a specific user system.

TIP: Indicates a shortcut or advanced technique.

CAUTION: Indicates a possible non-catastrophic hazard, i.e., an error could occur that would not cause loss of data or interruption of system availability.

WARNING: Indicates a possible catastrophic hazard which could cause loss of data, interruption of system availability, device damage, or personal injury.

Mouse Conventions

Two- or three-button mice are generally used on workstations and scanner controllers. On the screen, your mouse is represented with a pointer that moves in relation to your movement of the mouse. Position the on-screen mouse pointer at the place you want to select, choose the left/right button that has been set on the pointing device, typically the left button, to execute.

The button action involves either a single-click or a double-click of the left/right button. To select an action key on the screen, to select or highlight a field or specific record, press and release the left/right button. (JEDMICS uses whatever left/right setting is configured.)

Keyboard Conventions

Keyboards vary from manufacturer to manufacturer. MS-DOS®, Microsoft® Windows®, and Sun™ workstations, for example, generally use an industry standard 101-key enhanced keyboard with function keys F1 to F12.

In many cases, JEDMICS allows you to use a function key to execute a command. These function keys are identified on the bottom of the screen. Some of the keys perform unique functions on some of the JEDMICS submenus. Function keys, acting uniquely, are described in their applicable sections.

Most JEDMICS functions may also be performed using the keyboard. In this guide, these keys are displayed as they appear on the keyboard. Such keys include CTRL, SHIFT, or F1.

Compliments or Complaints

We can continually improve the JEDMICS user documentation by receiving feedback from you, the user, on the format or content of the user's guides. Included at the back of this guide are copies of the JEDMICS Documentation Feedback Report. If you have a suggestion to improve the layout or content of the user's guide, or if you want to identify an error or inconsistency, please complete and return the form. Your time and attention are appreciated.

1. Introduction to JEDMICS

1.1 System Overview

JEDMICS functionality is derived through its hardware devices and application software products. By choosing different types and quantities of workstations, printers, scanners, and optical storage, the system can be sized and tailored to meet a site's specific requirements. The following summary describes the JEDMICS functional subsystems and the hardware components that provide the JEDMICS functionality of input, quality assurance, storage, retrieval, and output.

JEDMICS is divided into six functional subsystems:

- Data Integrity Subsystem
- Index Subsystem
- Input Subsystem
- Optical Storage Subsystem
- Output Subsystem
- Remote Facilities Subsystem

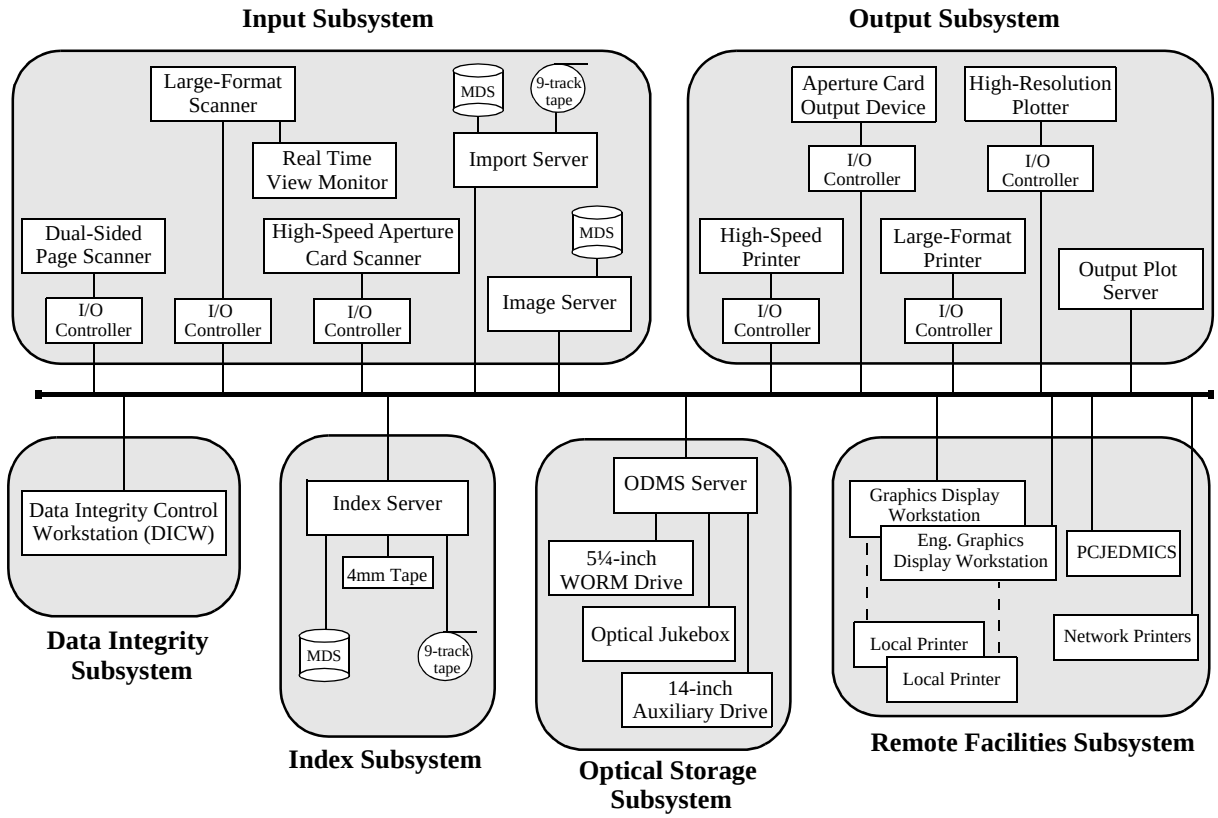


Figure 1.—JEDMICS System Overview

The JEDMICS subsystem devices are linked through the site's appropriately configured local area network (LAN).

The Input Subsystem enables the input or import of images and index data into JEDMICS using one of the scanning devices or by importing digital files. For sites whose repository and future input data is stored on aperture cards, the centerpiece of the Input Subsystem is the high-speed aperture card scanner (HSACS) that provides the capability to scan in aperture cards at rates up to 600 cards per hour depending on drawing sizes, resolution rates, and associated scan procedures. Both the images and the Hollerith data are retrieved from the aperture cards. Scanned images are stored in pending disk storage on the Image Server, while Hollerith data is converted to index data and stored on the Index Server.

If a site's aperture cards have been punched in a unique dialect, a dialect study is recommended to ensure the complete and accurate capture of all Hollerith data. Otherwise, dialect inconsistencies can be addressed manually during input and/or quality assurance procedures.

A site can add two additional types of scanning devices: a large-format scanner (LFS) capable of scanning up to J-size hardcopy images and a dual-sided page scanner (DSPS) for high-speed input (up to 350 pages per hour) of 8½-inch by 11-inch hardcopy images.

If a site has Continuous Acquisition Life-cycle Support (CALS)-compliant digitally-stored data, it can be imported directly into JEDMICS using various import utilities. JEDMICS can import data from MIL-STD-1840 format 9-track magnetic tape, fast uploading drawing data from optical platters generated by certified third party sources, and directly importing optical platters created by another JEDMICS system. The generic input service (GIS) utility is a set of programs that permits the direct insertion of data lists (DLs) and associated image data into JEDMICS. The GIS utility provides a simple mechanism for the migration of legacy data from systems such as DSREDS and EDCARS into JEDMICS. The generic output service (GOS) and batch output server (BOS) are software utilities that facilitate the export and exchange of index data, images, and repository data set structures between JEDMICS sites.

Scanned images are temporarily stored on magnetic disk to permit a quality assurance review prior to permanent storage on optical media. This quality assurance review occurs within the Data Integrity Subsystem. Using a Drawing Integrity Control Workstation (DICW) or Engineering Graphics Display Workstation (EGDW), a quality assurance operator can retrieve pending images and index data to verify completeness and correctness, and make necessary modifications. The number of images and index data that undergo quality assurance, and the level of quality assurance that each undergoes, is determined by the individual site and its operating procedures.

The Index Subsystem is a database server in a client-server architecture. It provides for the control and management of data through Government-purchased application software and an ORACLE Relational Database Management System (RDBMS). The RDBMS stores the index information and allows for the establishment of relationships without changing the data structure.

In addition, the RDBMS stores the location of each image by optical storage device, volume ID, platter side, and sector, and provides the infrastructure for JEDMICS to create a complete engineering data management environment. The Index Subsystem also provides application software to support data tracking, security, and communication interfaces with other sites.

The Optical Storage Subsystem writes to and retrieves images and other digital data from optical platters. The actual storage devices of this subsystem are based on the site-specific requirements for the number of images to be stored, database size, and the amount of temporary/pending storage required. The largest optical storage device integrated into the JEDMICS suite is the Kodak Automated Disk Library (ADL) jukebox. The Kodak ADL jukebox can store more than a terabyte of data (more than six million images).

JEDMICS has integrated several other optical storage devices to supplement or substitute for the Kodak ADL jukebox. They include a Kodak 560e jukebox, an auxiliary stand-alone 14-inch optical disk drive, and a 5¼-inch write-once-read-many (WORM) optical disk drive.

The Output Subsystem provides a variety of output devices and media options for JEDMICS. The types and numbers of output devices at a site are based on that site's requirements for engineering data output. Output functions include aperture card plotting, high-resolution plotting, large-format printing, high-speed printing, and queuing output to record onto compact disk (CD). Queuing and trafficking of output requests are controlled by the Index Server, the Image Server or the Optical Storage Subsystem Server, and the Input/Output (I/O) controller for each output device. The I/O controllers decompress the images for output. An Output Plot Server supports the printing of application-specific reports for tape import and Technical Information Storage and Control Application (TISCA), and is also used for the conversion of Initial Graphic Exchange Specification (IGES) files to raster files for output on JEDMICS devices. The Output Plot Server can also be configured with a CD-Recordable Output device and commercial off-the-shelf (COTS) CD-Recordable mastering software. This enables JEDMICS image files that have been sent to the appropriate directory to be output to CD.

The Remote Facilities Subsystem provides end-user access to images and index data using two different workstation platforms. The Graphics Display Workstation (GDW) is an MS-DOS workstation that allows users to retrieve and edit index data, and view and output images. The Engineering Graphics Display Workstation (EDGW) is a UNIX-based workstation that allows users to retrieve and edit index

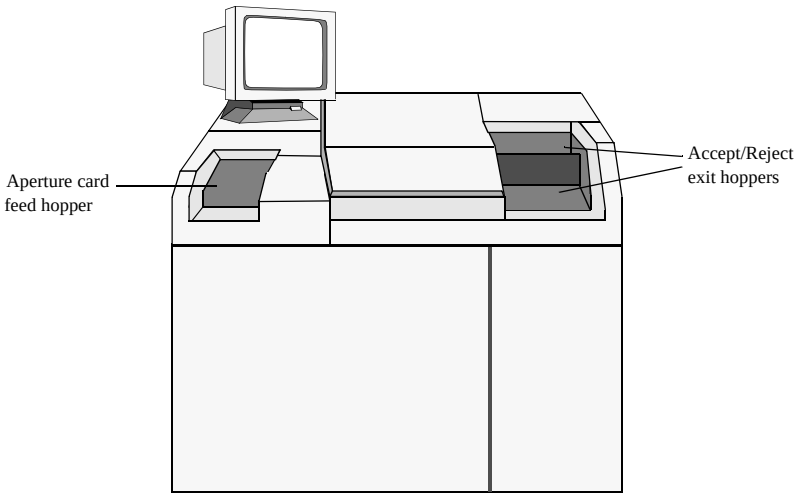
data, and view, edit, and output images. Any GDW or EGDW user with the appropriate permissions can import images at a workstation. Also available for accessing JEDMICS images and data by means of a workstation is PCJEDMICS. Developed by a third-party, PCJEDMICS includes a windows-based graphical user interface and accesses JEDMICS through the Application Programmer Interface (API).

If a site requires distributed output capabilities, the Remote Facilities Subsystem can include any of the JEDMICS output devices. The type and number of workstations and output devices that comprise a site's Remote Facilities Subsystem will be determined by that site's requirements for viewing, modifying, and outputting index data and images.

2. Aperture Card Scanner

2.1 Description

The high-speed aperture card scanner scans aperture card microfilm images and converts these images into a stream of raster data (pixels) that represent the scanned image, and captures the Hollerith data recorded (punched) in the 80 columns of the card. The Hollerith data is automatically read from the key punch information and converted into ASCII characters. The ASCII data is translated into index data, e.g., drawing number and sheet number, in accordance with the requirements specified in MIL-STD-804B and 804C, *Formats and Coding of Aperture, Copy and Tabulating Cards for Engineering Data Micro-reproduction System* and deviations determined by dialect. The Hollerith string contains a four-digit dialect ID in columns 56–63. The scanner code automatically inserts the dialect ID into the Hollerith string at scan time, during creation of the image. The drawing number is the primary Hollerith element used for searching and retrieving an image file in JEDMICS.



There are three types of cards or card formats that the scanner interprets: A-Type, H-Type, and T-Type. When scanning in batch mode, the scanner rejects all cards that do not have one of the valid card format codes punched in column 51. The scanner also rejects A-Type and T-Type cards that do not have a drawing size punched, as this is a mandatory punch column. Most rejected cards can be scanned using interactive mode.

H-type card formats contain data fields for accompanying kind (columns 25–26), accompanying document number (columns 27–33), and accompanying document revision letter (column 34). The accompanying kind codes are as follows:

Code	Accompanying Document Kind (804C dialect)
AD	Addendum
AM	Amendment
AN	Annex
AP	Appendix
AR	Article
AT	Attachment
NT	Notice
SP	Specification Sheet
SU	Supplement

Dialects 44, 46, 47, and 49 have additional accompanying document codes. See Appendix A.

When the Notice is of a nature that will drive a future revision to a base document, code 1N must also be punched in columns 1–2. [paraphrased from MIL-STD-804C]

Each instance of an accompanying document may be assigned to one base drawing. If more than one base drawing requires the same accompanying document, it must be rescanned or inserted use Pending Data Integrity menu from a workstation.

Under JEDMICS, the reduction ratios for standard drawing sizes are as follows: drawing sizes A, B, and C use 16x, drawing size D uses 24x, and drawing size E and greater uses 30x. Scanning is performed at a resolution of 200 dots per inch. The scanner feeder hopper has a capacity of 500 aperture cards and, as previously mentioned, scans at rates up to 600 cards per hour depending on drawing sizes.

Images may not be immediately available from pending data for QA. If a large quantity of cards is scanned in a short timeframe, especially from more than one input device, there will be a delay.

2.2 Operating Procedures

Powering ON the Scanner

To power ON the scanner, follow these steps:

a. Turn ON the power switch located on the right side of the scanner. This also turns on the internal input/output controller.

b. The main power (circuit-breaker) switch, located behind the rear panel of the scanner, is usually left on indefinitely. Leaving the main power on will NOT damage the scanner. This switch is in an area that is not readily accessible to the operator, as it is only used during equipment servicing, repair, or relocation.

Calibrating the Scanner

Calibrate the scanner whenever it has been idle for several hours or if it has been powered OFF. Calibration is a process to account and adjust for machine-based variations to achieve a standard-level of performance.

Run the Dumb Terminal program from within MS-DOS.

a. From the MS-DOS prompt, enter **DT** to initiate the Photomatrix Dumb Terminal program.

(1) Select **Keyboard Input** from the menu bar and press ENTER. The Scanner Dumb Terminal screen is displayed.

(2) Type **ST** (Status) to view the aperture card scanner system status, paying particular attention to the last line, and press ENTER. Ensure that null tile processing is turned OFF (NF). If the last line does not end in NF, type **CMNF** at the : prompt and press ENTER. JEDMICS will only support the HSACS when the null tile processing is turned OFF.

(3) Place a calibration card in the input hopper. At the : prompt, type **CX** (light calibration). This process may take several minutes.

(4) The system displays the following message:
`*****AUTO-CALIBRATION FINISHED*****`

(5) Type **UC** (Unload Card) and press ENTER.

(6) Type **CS** (Calibration Speed). This command performs the automatic speed calibration to be sure the cards are scanned at the proper speed. The system displays the message: `Speed Calibration in Progress`. This process may take a few minutes.

(7) The system displays the message: `calibration finished`.

(8) Press ESC twice to exit the Keyboard Input option.

(9) You are returned to the MS-DOS prompt.

b. At the end of the business day, complete these steps:

(1) From the MS-DOS prompt, enter **DT** to select the Scanner Dumb Terminal. Select **Keyboard Input** from the menu bar and press ENTER.

(2) Type **LF** (lamp off) at the : prompt and press ENTER. (The light turns on automatically when you scan a card or calibrate the scanner.)

(3) Press ESC twice to end Keyboard Input.

Logging on to JEDMICS

a. From the Microsoft Windows Program Manager select the JEDMICS Program Group.

b. Double-click the JEDMICS application icon. The JEDMICS - Photomatrix V200 Aperture Scanner screen displays.

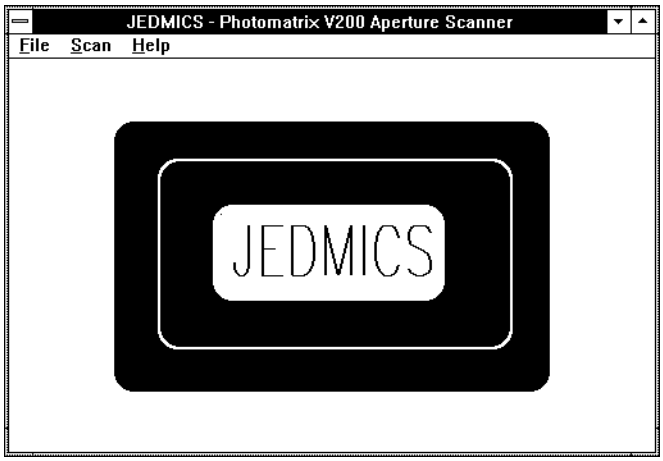


Figure 2.—JEDMICS - Photomatrix V200 Aperture Scanner Screen

Keyboard: Press **F2**.
Mouse: Select **File>Log On**.

c. The HSACS V200 Scanner Logon Screen displays.

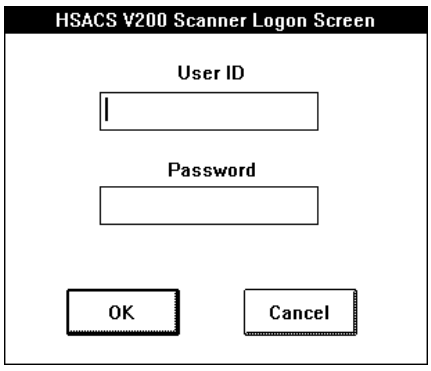


Figure 3.—HSACS V200 Scanner Logon Screen

d. Type your user ID and press TAB. The user ID must be five characters or more.

e. Type your assigned password.

f. Click **OK** or press ENTER to initiate the log-on process.

(1) The system displays: `Logging on to JEDMICS`. The hour glass icon remains displayed until the log on process is complete.

(2) The V200:User '*user ID*' screen displays. Once you have successfully logged on to the aperture card scanner, your user ID displays in the title bar. A sample screen follows.

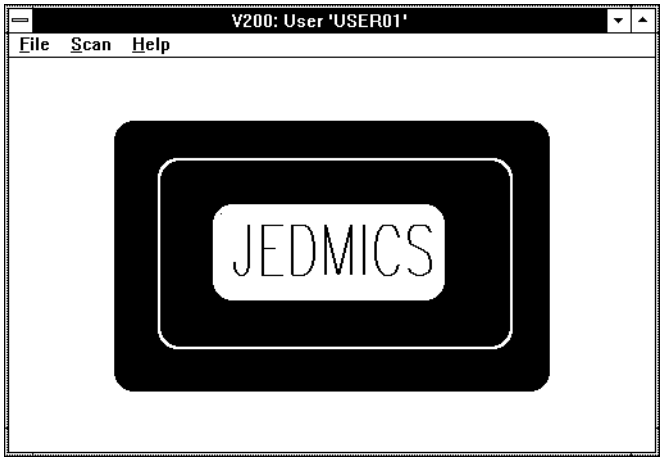


Figure 4.—V200 User 'USER01' Screen

If an invalid user ID or password is used, the following message displays: `Invalid userid/password`. Click **OK** and reenter your user ID and password. After three failed attempts to log on the user is locked out until the system administrator intervenes. When a new password is required, log on to any JEDMICS workstation and access the Change Password menu option.

Configuration

a. Select **File>Configure**.

b. The Configuration screen displays.

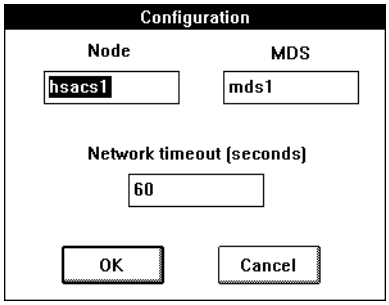


Figure 5.—Configuration Screen

c. Ensure that the following parameters are set.

(1) **Node**: This is the network node name of the scan controller. The default is hsacs1. Check with your system administrator to verify the correct node name.

(2) **MDS**: This is the network node name of the Image Server where the scanned images are stored. The default is mds1. Check with your system administrator to verify the correct name.

(3) **Network timeout (seconds)**: This is the timeout period, in seconds, for all network transactions, i.e., logging on/off or transferring files. The default is 60.

d. Click **OK** once the parameters are confirmed.

Logging off JEDMICS

Once the scanning session is complete, follow these steps to log off JEDMICS.

a. Begin from the V200:User '*user ID*' screen.

Keyboard: Press **F10**.
Mouse: Select **File>Log off**.

All scan parameters are cleared when you log off, unless they are saved in the *v20set.ini* file.

b. Audit data is sent to the database to properly log off the current user. If Microsoft Windows is closed or the scanner is turned off prior to a scanner operator logging off properly, then upon startup of the scanner the previous operator is logged off.

2.3 Setting Scan Parameters for Interactive or Batch Scanning

Before you start a scanning session on the high-speed aperture card scanner (HSACS), you need to set various scan parameters. A sample Scan Parameters screen follows.

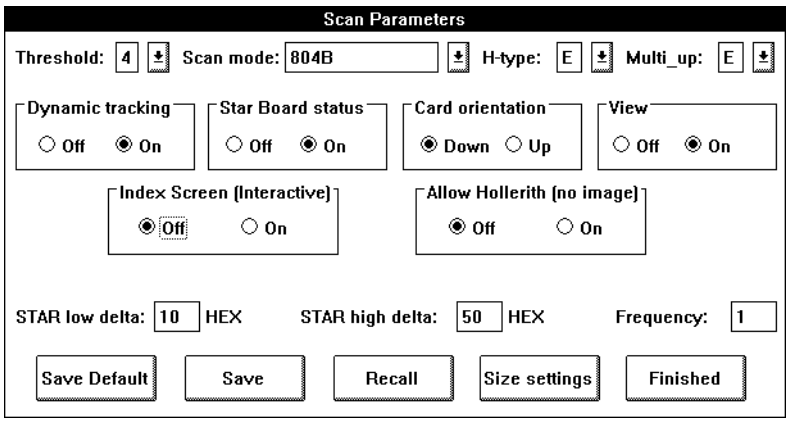


Figure 6.—Scan Parameters Screen

Once you have selected a set of scan parameters, you may want to save these as the system defaults, which will be used during future scan sessions.

The *v20set.ini* file in */edmics/bin* contains the default settings for scanning. It is read in at the start of each scan session. When you select **Save Default** on the Scan Parameters screen, the new parameters settings are saved to the *v20set.ini* file.

Parameter/Button Settings	Description
Threshold:	Lightens or darkens the image. Values are 1-8 where 1 is the darkest and 8 is the lightest. The default is 6.
Scan mode:	Specifies the scheme or dialect the scanner will use to interpret the punched Hollerith data. Appendix A provides a complete list of the dialects supported by JEDMICS.
H-type:	Sets the default size of the scan window for H-type cards since H-type cards do not require a drawing size punched. Values are A through H, J, K, or R.
Multi_up:	Sets the drawing size for a multi-sheet drawing. Values are A through H, J, K, or R. The default is E.
Dynamic tracking	Monitors the quality (contrast, darkness, lightness) of the image being scanned. Erases specks on the drawings, improves uneven lines or contrast, and enhances the image. The default is On.
Star Board status	Improves the quality of the scanned image by continuously monitoring the background and darkness settings to optimize the dynamic image thresholding and image clarity. Normally, the setting should be left On at all times. The default is On.
Card orientation	Sets the orientation of the card. The default is Down. **Note**: Card orientation is Up only if microfilm has been mounted backwards.
View	Provides an option to view scanned images (with a security classification of N (unclassified)) at selected intervals. When the setting is On, an additional parameter is set for Frequency.
Index Screen (Interactive)	Permits the scan operator to use the data entered via the Indexing Data screen rather than the Hollerith string as index data (the Hollerith string will be overwritten by new data). If this setting is Off, the Hollerith string is parsed into the appropriate index data fields when the aperture card is loaded. Also, with the setting On, any parsing errors and the reason for the errors are placed into the file */edmics/bin/parse.log* on the HSACS. While the record inserted into pending will have a bad Hollerith flag set if a parsing error occurs, the QA Reject Reason Report will not show the reason.
Allow Hollerith (no image)	Provides an option to store Hollerith data without an associated image for drawings (or documents) with security classifications other than N (Unclassified). Will parse Hollerith in accordance with the rules of the specified dialect. If only the index data is inserted, the record is marked with a file type of EXT (external). With this setting On, any value for security is allowed, however any non-valid security code will be marked with a bad Hollerith flag. **Note**: If this setting is On the Scan button on the Interactive Scan screen is not invoked, and therefore is not displayed.
STAR low delta:	Setting changed only by the vendor technician. The default is 10.
STAR high delta:	Setting changed only by the vendor technician. The default is 50.

Parameter/Button Settings	Description
Frequency:	Sets the interval rate for viewing an image if View is On; for example, 5 for viewing every 5th image. When the View setting is Off, this option is not displayed.
Save Default button	Writes scan parameter settings to the *v20set.ini* file which is read in as defaults each time the scanner program is started. The settings should be verified before saving.
Save button	Saves the scan parameter settings to a file you define.
Recall button	Provides an option of retrieving a file containing a set of predefined scan parameters.
Size settings button	Controls the area of the scan window you want to capture. Values are entered for the drawing size, line width, pixel width, line offset, pixel offset.
Finished button	Closes the Scan Parameters screen. Settings are not saved to *v20set.ini* defaults file. To ensure that scan parameters and size parameter information is saved and read each time program is initiated, select **Save Default**.

Setting Scan Parameters

The following instructions outline how to set the scan parameters. You may access the scan parameters in one of two ways.

a. Begin from the V200:User '*user ID*' screen and proceed with the following steps.

Keyboard: Press **F6**.
Mouse: Select **Scan>Scan Parameters**.

OR

Select **Parameters** from the Interactive Scan screen. See section 2.8.

b. The Scan Parameters screen displays.

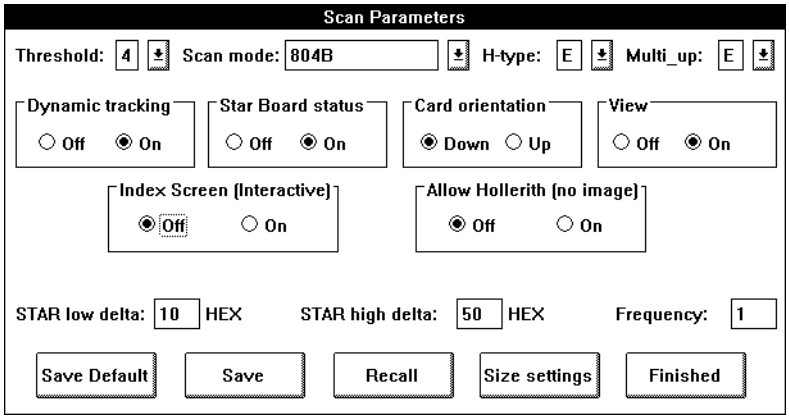


Figure 7.—Scan Parameters Screen

c. Select a **Threshold** setting by clicking the arrow box. These settings lighten or darken the images. The default value of 6 should accommodate most cards, but this value may need to be changed to accommodate specific card types. Cards containing errors will be stamped as bad Hollerith.

d. Select a **Scan mode** by clicking the arrow box to choose a dialect. Cards containing errors will be stamped as bad Hollerith. An explanation of the scan mode schemes and dialects is provided in Appendix A.

The scan operator cannot reject the card(s) based on dialect rules. A QA operator at a DICW can reject batches of cards by flagging the pending records to delete. See the *DICW/EGDW User's Guide*.

(1) If you are scanning an H-type card, ensure that the value in the H-type field is the correct drawing size. The drawing size selected sets the default scan window size for cards without a drawing size punched.

(2) If the Special-T scan mode has been selected, select the appropriate drawing size in the Multi_up field.

e. Select On or Off for the **Dynamic tracking** resolution enhancement feature. The On setting is recommended when the card quality is poor (e.g., the drawing is smudged, or lines are blurred and/or broken). The Off setting is recommended when the card quality is good (e.g., the drawing is clean and lines are sharp and unbroken).

f. Ensure that the **Star Board status** option is On. It is recommended that this setting remain On at all times.

g. Select Down or Up for the **Card orientation**. Position the aperture cards in the hopper with the frame of microfilm on the left and the punched Hollerith data on the right (print side facing you). The card orientation specifies the direction for the scanner to read the Hollerith data. The default is Down.

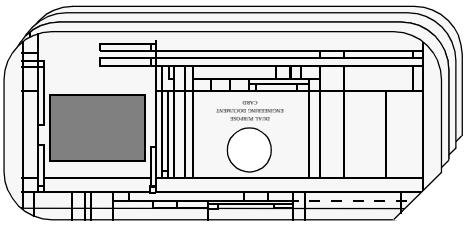


Figure 8.—Unclassified Card

If the microfilm is mounted backwards, select Up as the card orientation.

h. Select On or Off to automatically **View** the scanned image at specified intervals. When On is selected the image is displayed using the PRC Digital Image Viewer application program.

   (1) When On is selected, the **Frequency** rate is entered.

   (2) Enter the interval rate. For example, type **5** to view every 5th image.

i. To view or alter parsed Hollerith data, ensure that the **Index Screen (Interactive)** setting is On. Revised values override the original Hollerith data.

j. To store index data for classified images without storing the image in JEDMICS, set the **Allow Hollerith** option On. The default is Off.

k. Select **Size Settings** to display the Window Size Settings screen. Size settings control the area of the scan window you want to capture.

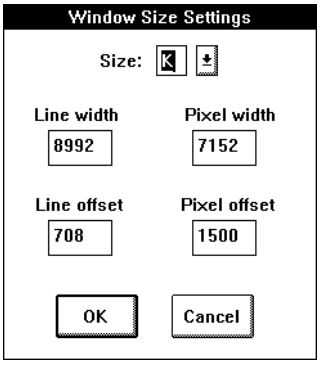


Figure 9.—Window Size Settings Screen

Change the window size settings as necessary, then click **OK**. Default window size settings for drawing sizes A through E are shown below. Drawing sizes F–H, J, K, and R are the same size as an E-size. For further information on setting line or pixel widths, and line or pixel offsets refer to Appendix C.

Drawing Size	Line Width	Line Offset	Pixel Width	Pixel Offset	Reduction Factor	Zoom Factor
A	1888	3968	2400	2960	16	4
B	3552	2128	2400	2752	16	4
C	4512	1680	3552	1728	16	4
D	6992	1392	4624	2304	24	8
E	8992	208	7152	1248	30	8
F–H, J, K, R	8992	208	7152	1248	30	8

l. If window size settings have been changed to accommodate a particular drawings size and you want to use these settings in the future, select **Save**. The Save Scanner Settings screen displays.

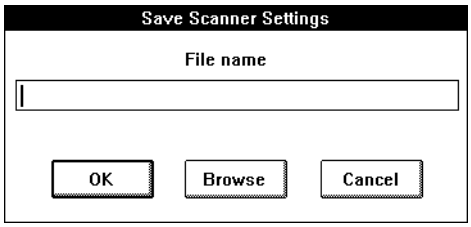


Figure 10.—Save Scanner Settings Screen

(1) Type the 8-character file name plus the *.ini* extension.

For example: When you have a large batch of aperture cards, size A, that are being scanned using the A-size setting (8½-inches by 11-inches), but the image is still being cut off. You will need to change the window size settings. If you know that you may encounter cards in the future that are this particular size you can save these settings, in a user-defined file.

File names longer than eight characters are truncated.

(2) Click **OK** to save the new settings. These settings will now be available for future use and may be accessed by selecting **Recall** from the Scan Parameters screen.

Browsing a List of Existing *.ini* Files

The filenames that are listed on the Browse screen are not all scanner setting *.ini* files. The first time you save scanner settings, you are asked to type in a filename. If you want your scanner settings to be your default values, you might name the file *defaults.ini*. Do not save new or revised scanner settings to any of the following *.ini* files: *cntrlcode.ini*, *config.ini*, *dialect.ini*, *distrib.ini*, or *drawsize.ini*. The site system administrator may need to customize these files to add one or more non-standard distribution codes or control codes.

(1) Select **Save** from the Scan Parameters screen. The Save Scanner Settings screen (figure 10) displays.

(2) Select **Browse** to view a list of *.ini* files. The Browse screen displays.

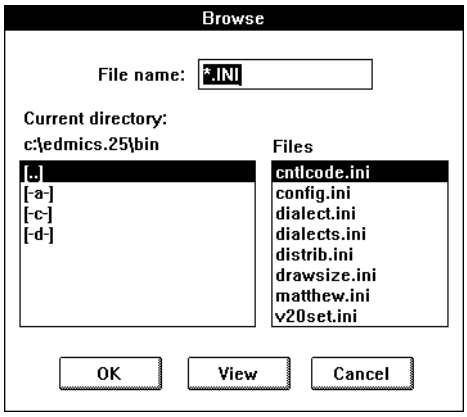


Figure 11.—Browse Screen

(3) Highlight the desired *.ini* file. To ensure that the file contains the appropriate settings, select **View**. The View File screen displays.

(4) Click **OK** to continue.

Recalling Scanner Settings

(1) Select **Recall** from the Scan Parameters screen (figure 7). The Recall Scanner Settings screen displays.

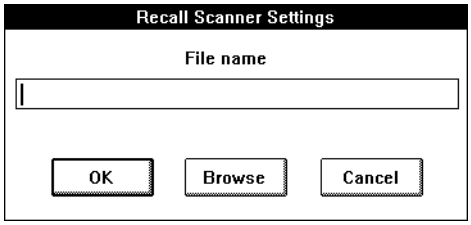


Figure 12.—Recall Scanner Settings Screen

(2) Enter the file's full path name and click **OK**. For example, **C:\edmics\bin\{filename}.ini**. You can choose **Browse** to view a list of existing *.ini* files.

m. Select **Save Default** to save the scan parameter settings in the *v20set.ini* file. This file is read in by the aperture card scanner at startup time and contains the default values for the Scan Parameters screen and the values for the Window Sizes screen. The values in the file directly correlate to the Scan Parameters screen values. In order to save the changes to the Scan Parameters screen so they become the default values each time the aperture card scanner is started, the **Save Default** button must be selected to update the *v20set.ini* file.

The file *drawsize.ini* should have an image type (A, B, C ...) for each line in the *v20set.ini* file ([A_size], [B_size], [C_size]...).

n. Select **Finished** to end setting scan parameters. The V200:User '*user ID*' screen displays.

More About .ini Files for Existing JEDMICS Sites

All *.ini* files that were setup and saved for Release 2.4.4, should be recreated by deleting the *v20set.ini* file, which will be regenerated by HSACS, altering to the desired values, and saving to new file names, using the **Save** button on the Scan Parameters screen.

If the user wants to edit the 2.4.4 *.ini* files, which are loaded using the **Recall** button on the Scan Parameters screen, then they need to add lines in the files for each image size ([A_size]).

- A-C sizes should include the two lines:
  reduction_factor=16
  zoom_factor=4
- D sizes should include the two lines:
  reduction_factor=24
  zoom_factor=8
- E and larger sizes should include the two lines:
  reduction_factor=30
  zoom_factor=8

For example:
[A_size]
line_width=1888
pixel_width=2400
line_offset=3968
pixel_offset=2960
reduction_factor=16
zoom_factor=4

2.4 Changing Hollerith Data Using the Modify Button

Changes to the Hollerith string may be made using the Modify button on the Interactive Scan screen but such changes MUST BE MADE PRIOR to accessing the Indexing Data screen.

Only two fields can be changed: drawing size (at column 50) and card type (at column 51).

If a modification to the Hollerith string is attempted after the Indexing Data screen has been accessed for the current image, an error message displays indicating the inability to use the Modify option. Any desired index data change(s) must then be made through the Indexing Data screen.

The Indexing Data screen cannot be used to override the drawing size, rights code, or security code which always comes from the Hollerith string.

These changes are saved as part of the image file header data. Modifications to the card type and drawing size affect scanning parameters, the modified card type is scanned using the operator-selected scan mode (dialect) and the scan size setting uses the modified drawing size.

2.5 Entering Indexing Data

The Indexing Data screen operates in conjunction with the Interactive Off/On setting on the Scan Parameters screen. When this setting is On, you can use the Indexing Data screen to enter index data rather than the Hollerith string on the aperture card.

The Hollerith string is still embedded in the image header even if the Indexing Data screen is used.

a. Access to the Indexing Data screen may be accomplished in one of two ways.

   (1) From the Interactive Scan screen, select **Index Data**.

   (2) From the V200:User '*user ID*' screen, press **F7**.

b. A sample screen is shown followed by an explanation of each field.

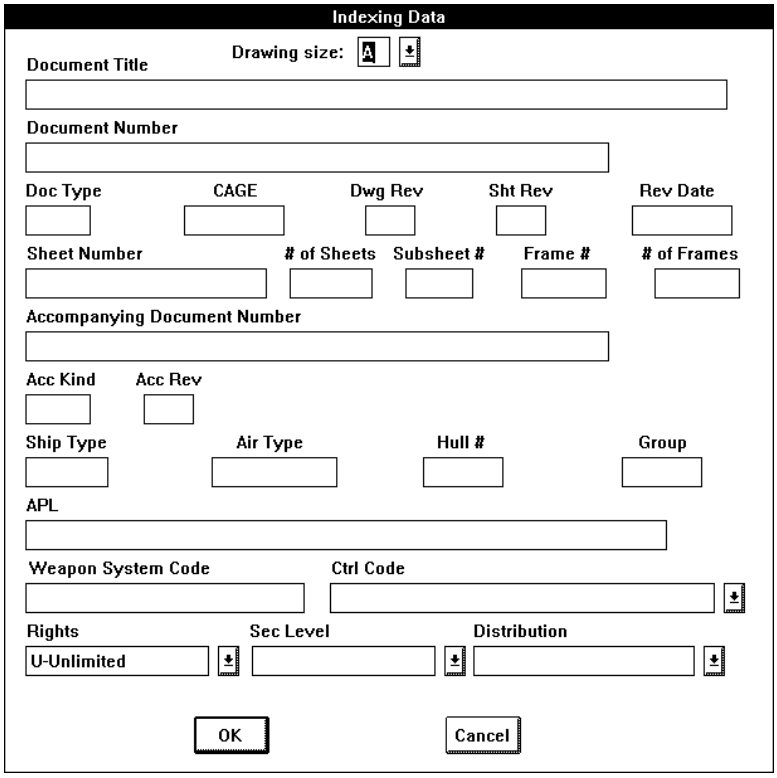


Figure 13.—Indexing Data Screen

Indexing Data Field	Description
Drawing size	A single alpha field identifying the drawing size.
Document Title	A 40-character alphanumeric field describing a document or drawing.
Document Number	A 32-character field that identifies the drawing.
Doc Type	A two-character code identifying the document. For example, EL for Equipment List or PL for Parts List.
CAGE	Commercial and Government Entity (CAGE) code that identifies the manufacturer, government agency, or activity associated with the drawing.
Dwg Rev	Revision level of the drawing. Beginning with JEDMICS Release 2.5, drawing revision is always replaced with sheet revision. Right justified.
Sht Rev	Sheet revision level for drawings with multiple revision and sheet levels. Right justified.
Rev Date	Calendar date of drawing revision.
Sheet Number	A 12-character numeric right-justified field that is assigned to each sheet of a multi-sheet drawing. JEDMICS zero fills the first four characters of the field.
# of Sheets	A four-character right justified field for the total number of sheets in a multi-sheet drawing.

Indexing Data Field	Description
Subsheet #	Portion (subsheet) of the drawing. JEDMICS zero fills the alpha or numeric subsheet right justified field to three spaces, for example, '00A'. For accompanying documents this field must equal the base drawing revision. See Section 2.6, *Scanning Accompanying Documents*, for more information.
Frame #	A four-character field that displays the frame number of each frame in a series of frames. JEDMICS automatically zero pads and right justifies the entry to four characters if the original length is three or fewer characters.
# of Frames	A four-character field that displays the number of frames in a series. JEDMICS automatically zero pads and right justifies the entry to four characters if the original length is three or fewer characters.
Accompanying Document Number	A 32-character numeric field assigned to an accompanying document. Accompanying documents are usually text associated with a base drawing, e.g., an addendum. Applies only to the H format card.
Acc Kind	A two-character field that describes the type of accompanying document, e.g., AD for addendum. (Acc Kind is the equivalent of document type.)
Acc Rev	A two-character field that reflects the revision level of an accompanying document. A single numeric revision level is zero padded.
Ship Type	The type of ship to which the document applies. Ship type and hull number together form the STHN column of the IMS_PENDING table. In accordance with MIL-M-38761/2A, Ship Type is trimmed of leading spaces, left justified and padded with trailing spaces to four spaces.
Air Type	Aircraft type/model or device; a six-character alphanumeric code identifying an aircraft by broad performance and use characteristics.
Hull #	A four-character numeric right justified field that is part of a ship's identifying code. Leading spaces are zero filled to four spaces.
Group	A four-character field which identifies the group designation of a drawing.
APL	A 35-character alphanumeric field for Allowance Parts List reference number; the APL will be associated with the item which a drawing represents. Unused at this time.
Weapon System Code	A 15-character field that identifies a weapon system. This code enables images to be tied to a unique group code that can be used to control migration of pending images to permanent storage on specific optical platters.
Ctrl Code	A two-character alphabetic field listing control activity codes.
Rights	A one-character alphabetic field listing the Rights code.
Sec Level	A one-character alphabetic field listing the security classifications. If a security level greater than K is inserted, there is no method to view the record in JEDMICS since the highest allowable security setting is K. The QA Reject Reason Report will report the error thereby allowing QA personnel to correct.
Distribution	A one-character alphabetic field listing the distribution codes.

A single quote is not a valid entry in any field except the Document Title field.

c. Enter new index data or revise original Hollerith data in the appropriate fields. Press TAB to move between fields. Click **OK**.

Control codes are based on MIL-HDBK-331D; Distribution codes are based on DoD Directive 5230.24 and MIL-STD-1806, with additions by JEDMICS sites.

d. Any modifications to the scanned Hollerith data are treated as QA changes and are sent to the pending database. Modified Hollerith data will not be reformatted and written to the image file.

Once modifications are made here they cannot be reversed using the Modify button.

2.6 Scanning Accompanying Documents

On any of the JEDMICS scanners, if a value is entered in the Subsheet # field on the Indexing Data screen for an accompanying document to a value other than the base document drawing revision, when the index data is saved (accepted) an informational message box is displayed with the message:

```
Sub sheet value must equal Sheet rev
```

Click **OK** to continue. When you have completed your index data entries, click **OK** on the Indexing Data screen. The Subsheet # field is populated with the drawing revision, overwriting any previously entered values.

A scanned record is assumed to be an accompanying document if the Accompanying Document Number field on the Indexing Data screen is populated.

Due to the limitations of SQL forms used in JEDMICS, when the Indexing Data screen is used interactively if the sheet revision is edited, the system automatically changes drawing revision to equal sheet revision. This change is transparent to the scan operator until the Indexing Data screen is closed and reopened.

2.7 Customizing *.ini* Files

JEDMICS provides a standard list of control codes and distribution codes based on a set of military standards. However, your site may use a control code or distribution code not included in the default list. In this situation, your system administrator may customize the *cntlcode.ini* or *distrib.ini* files located in the */edmics/bin* directories using any text editor. The following sections provide guidelines for editing these files.

Always make a backup of the original *.ini* files.

Modifying the *cntlcode.ini* File

To add a control code to the *cntlcode.ini* file, follow these guidelines:

- The first two characters of each line is the actual control code.
- A dash (-) is the next character, followed by a description of the control code.
- Comments begin with a semi-colon (;).
- New line(s) can be inserted anywhere in the file.
- Control codes must be upper case.
- The maximum number of entries is 100.

The following is a list of all dialects supported by JEDMICS Release 2.5.2 and the allowable control codes for each:

Dialect	Allowable Value	Dialect	Allowable Value
dialect 7	Alphanumeric	dialect 49	Alphanumeric
dialect 19	Alphanumeric	dialect 50	Alphanumeric
dialect 20	Alphanumeric	dialect 51	HNBK 331 + HR
dialect 21	Alphanumeric	dialect 52	HNBK 331 + HR
dialect 24	Alphanumeric	dialect 53	Alphanumeric
dialect 25	Alphanumeric	dialect 54	Alphanumeric
dialect 28	Alphanumeric	dialect 55	Alphanumeric
dialect 29	Alphanumeric	dialect 56	Alphanumeric
dialect 30	Alphanumeric	dialect 57	Alphanumeric
dialect 33	Alphanumeric	dialect 58	Alphanumeric
dialect 34	Alphanumeric	dialect 59	Alphanumeric
dialect 35	Alphanumeric	dialect 60	Alphanumeric
dialect 36	Alphanumeric	dialect 61	Alphanumeric
dialect 37	Alphanumeric	dialect 62	Alphanumeric
dialect 39	Alphanumeric	dialect 63	N/A
dialect 42	HNBK 331 + HR	dialect 64	N/A
dialect 44	HNBK 331 + HR	dialect 65	Alphanumeric
dialect 45	HNBK 331 + HR	dialect 66	N/A
dialect 46	HNBK 331 + HR	dialect 67	N/A
dialect 47	HNBK 331 + HR	dialect 68	Alphanumeric
dialect 48	Alphanumeric	dialect 69	Alphanumeric

Modifying the *distrib.ini* File

To add a distribution code to the *distrib.ini* file, follow these guidelines:

- Distribution codes must be UPPERCASE.
- A single letter must precede multiple letters. For example, A or B before AG or B2.
- The maximum number of entries is 100.
- The first character of each line is the actual distribution statement.
- A dash (-) is the next character, followed by a description of the distribution code.
- Comments begin with the semi-colon (;).
- New line(s) can be inserted anywhere in the file.

The following is a list of all the dialects supported by JEDMICS Release 2.5.2 and the allowable distribution code values:

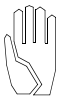
Dialect	Allowable Value	Dialect	Allowable Value
dialect 7	Alpha	dialect 49	A, B, C, D, E, F, X
dialect 19	N/A	dialect 50	N/A
dialect 20	N/A	dialect 51	N/A
dialect 21	Alpha	dialect 52	A, B, C, D, E, F, X, Blank
dialect 24	Alpha	dialect 53	Alpha
dialect 25	Alpha	dialect 54	Alpha
dialect 28	N/A	dialect 55	Alpha
dialect 29	N/A	dialect 56	Alpha
dialect 30	Alpha	dialect 57	Alpha
dialect 33	Alpha	dialect 58	Alpha
dialect 34	N/A	dialect 59	Alpha
dialect 35	N/A	dialect 60	Alpha
dialect 36	N/A	dialect 61	Alpha
dialect 37	N/A	dialect 62	N/A
dialect 39	N/A	dialect 63	Numeric
dialect 42	A, B, C, D, E, F, X	dialect 64	N/A
dialect 44	A, B, C, D, E, F, X, Blank	dialect 65	N/A
dialect 45	N/A	dialect 66	N/A
dialect 46	A, B, C, D, E, F, X, Blank	dialect 67	N/A
dialect 47	A, B, C, D, E, F, X, Blank	dialect 68	N/A
dialect 48	A, B, C, D, E, F, X	dialect 69	Alpha

Modifying the *drawsize.ini* File (not applicable to the dual-sided page scanner)

All drawing size definitions relating to the aperture card scanner's camera window size and reduction factor are maintained in the file *drawsize.ini*. By placing these values into a file, sites can easily customize the file to account for special case situations. Several preconstructed files can be kept and copied into *drawsize.ini* when needed.

Follow these guidelines to modify the *drawsize.ini* files:

- A null entry is not allowed.
- The maximum number of entries is 25.
- An entry in *drawsize.ini* must have a corresponding value in *v20set.ini* or a user-defined *.ini* file.



Any change to the order, or an addition or deletion from the file, needs to be mirrored in the *v20set.ini* file. There needs to be size parameters defined for the drawing sizes supported by JEDMICS.

2.8 Interactive Scanning

The Interactive Scan screen allows you to (1) generate a batch control number for your scan session, (2) add index data, (3) set scan parameters, (4) load the aperture card(s), (5) view the image once the card has been scanned, and (6) accept or reject the image. When a card with a security classification of something other than N (Unclassified) (or U for certain dialects) and the Allow Hollerith (no image) setting is Off, the image is rejected. When a card with a security classification of something other than N and the Allow Hollerith (no image) setting is On, the Hollerith data is accepted but no image is transferred to pending.

If an accompanying document is scanned whose base document is not in JEDMICS, the accompanying document is given a status of NBD (No Base Document).

A sample of the Interactive Scan screen (with the Allow Hollerith (no image) setting On) follows with an explanation of each option.

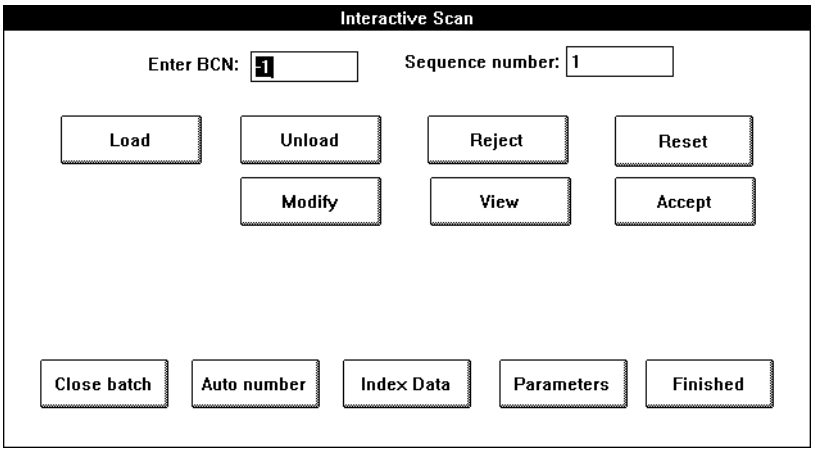


Figure 14.—Interactive Scan Screen

Field/Button Options	Description
Enter BCN:	A five-character field used to display a system-generated BCN or to enter a BCN manually. When entering a BCN, the system limit is 32,000. The system-generated BCN is the recommended method.
Sequence number:	A five-character display field that shows the number of drawings within the current batch.
Load	Loads the aperture card.
Unload	Unloads the aperture card. Once selected, the card is moved to the output hopper.
Reject	Used if the card is not to be sent to the database. Card is moved to reject hopper.
Reset	Resets the scanner controller.
Modify	Allows you to revise the Hollerith data. If the drawing size is modified the scanner window will be reset to the new size for scanning the current card. Modified Hollerith will not be reformatted and written-to the image file. The original Hollerith data will still be written to the image file.
View	Invokes the PRC Digital Image Viewer and displays the scanned image. The Viewer is not launched if the security classification of the drawing is something other than N (Unclassified).
Accept	Sends the image to the pending file and builds the associated index record in the database.
Close batch	Closes the current batch ID.
Auto number	Generates an automatic batch control number (BCN).

Field/Button Options	Description
Index Data	Accesses the Indexing Data screen. The Index Screen (Interactive) setting must be On in order for Hollerith data to be modified. Once Hollerith data has been modified and stored, you cannot reverse the changes using the Modify button.
Parameters	Accesses the Scan Parameters screen.
Finished	Ends the interactive scan session. All indexing data resets to the default values.

The Scan button displays after the card is loaded, except when the Allow Hollerith (no image) setting is On, and the security position is not 'N'.

Procedure

It is assumed that the scan parameters and index data have been defined.

a. Ensure the cards are free of excess static electricity by fanning the batch and tapping all four sides. Pull back the feed-hopper backing plate, place the cards in the input hopper, print side facing you and upside down.

b. Begin from the V200 User '*user ID*' screen and proceed with the following steps.

   Keyboard: Press **F5**.
   Mouse: Select **Scan>Interactive scan**.

c. The Interactive Scan screen (figure 14) displays.

d. Select **Auto number** or enter a batch number manually.

   (1) To automatically generate a batch number:

      (a) Select **Auto number**. The system displays the message: `Requesting next batch...`

      (b) The batch number displays.

   (2) To manually enter a batch number:

      (a) Double-click the batch number to highlight.

(b) Type a new or existing BCN. Validation of the BCN occurs once you select **Scan** or **Accept**. The system displays the message: `Validating batch number...` If you are appending to an existing batch number, the Duplicate BCN screen displays once you select **Scan** or **Accept**.

Be aware if you have a manually-entered BCN that matches an upcoming automatically assigned BCN, an error will occur. Acknowledge the error and reselect Auto number.

e. Select **Load**. The system message displays: `Card loaded`. The aperture card is loaded into the scan area from the input hopper and the Hollerith data displayed. The scanner parses the Hollerith data according to the rules of the selected dialect.

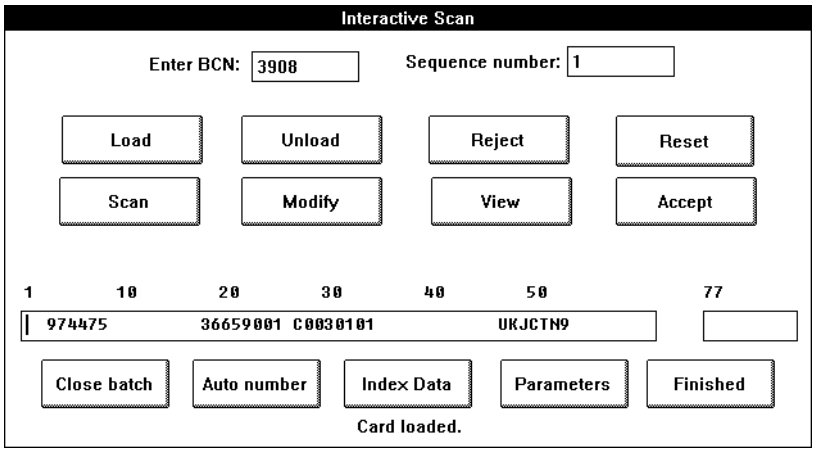


Figure 15.—Interactive Scan Screen with Hollerith Data Displayed

f. To correct or modify the Hollerith data on the aperture card, move the mouse to position the cursor under the Hollerith data to be revised and type in the new character(s). Select **Modify**. See Section 2.4, *Changing Hollerith Data Using the Modify Button*.

Use the mouse to move between characters within the Hollerith data.

g. Select **Scan**. If a batch number has not been entered, one is automatically assigned now and the message: `Requesting next batch...` displays. However, if you are appending to an existing batch number and have entered one manually, the Duplicate BCN screen displays.

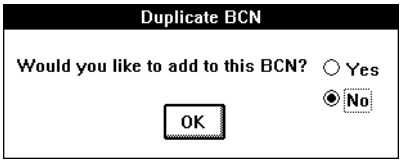


Figure 16.—Duplicate BCN Screen

(1) To append to an existing batch number, select **Yes** and click **OK**.

(2) The system appends to the current BCN and updates the sequence number.

h. The loaded card is scanned and the `Finished` message displays.

i. Select **View** to display the scanned image using the PRC Digital Image Viewer. The PRC Viewer allows you to perform quality checking. A sample of both the PRC Viewer screen and the JEDMICS Interactive Scan screen follows.

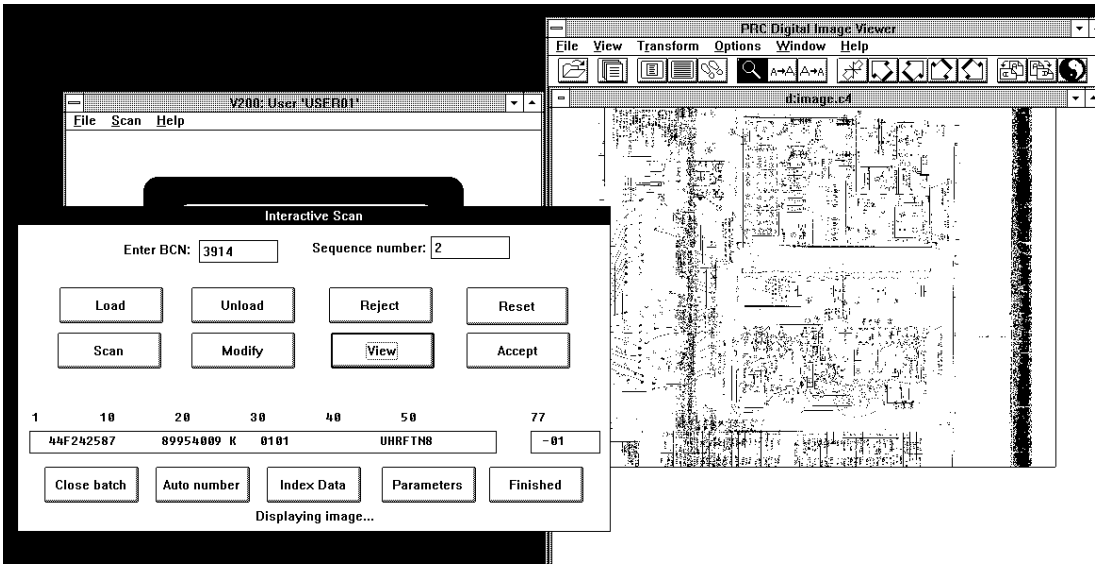


Figure 17.—PRC Viewer Screen and JEDMICS Interactive Scan Screen

j. If the image meets your quality control standard, select **Accept** to store the image in the pending database on the Image Server and build an index record which is stored in the pending file on the Index Server.

k. If the image does not meet the established quality standard, return to the Scan Parameters screen and make the appropriate changes following the procedures in section 2.3. Once the parameters have been revised, select **Scan**.

If it is not possible to properly scan the card, select **Reject**. The card will be automatically unloaded into the reject hopper.

l. Select **Unload** to unload the card. The card is unloaded into the output hopper.

m. Repeat steps e. through l. to scan additional cards.

n. When all the cards for the current batch number have been scanned, select **Finished**. The batch number is considered closed and the V200:User '*user ID*' screen displays.

The records inserted into pending storage have default values assigned to the following fields: Image Change User ID (Img Chg Userid), Image Change Date (Image Chg Date), Index Change User ID (Idx Chg Userid), and Index Change Date (Idx Chg Date). (The user ID is set to UNKNOWN and the date is null.)

2.9 Batch Scanning

Batch processing is used for most scanning jobs. When batch scanning, the aperture cards enter the card reader automatically, one after another. You can view cards at specified intervals, if desired, to determine the quality of the scanned image.

If the Index Interactive setting is On, all aperture cards scanned will be inserted into pending storage using the values entered on the Indexing Data screen in place of the corresponding date read from the aperture card.

When a card with a security classification of something other than N (Unclassified) and the Allow Hollerith (no image) setting is Off, the image is rejected. When a card with a security classification of something other than N and the Allow Hollerith (no image) setting is On, the Hollerith data is accepted but no image is transferred to the pending database.

A sample of the Batch Scan screen follows with an explanation of each option.

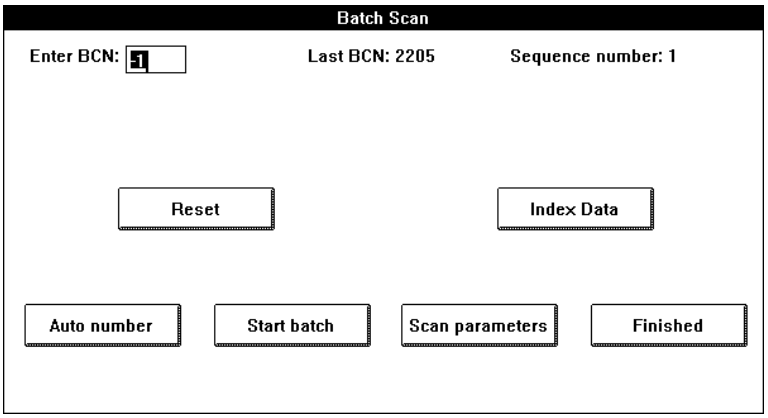


Figure 18.—Batch Scan Screen

Field/Button Options	Description
Enter BCN:	A five-character field used to display a system-generated BCN or to enter a BCN manually. When entering a BCN, the system limit is 32,000. The system-generated BCN is the recommended method.
Last BCN:	Displays the last batch control number used by the system.
Sequence number:	A five-character display field that shows the number of drawings within the current batch.
Reset	Resets the scanner controller.
Index Data	Accesses the Indexing Data screen.
Auto number	Instructs JEDMICS to generate a batch control number and display it on the screen.
Start batch	Initiates the scan process. Hollerith data appears on the screen as the cards are scanned.
Scan parameters	Displays the Scan Parameters screen.
Finished	Ends the batch session. All indexing data resets to the default values.

Procedure

These procedures assume that the scan parameters have been set.

a. Make sure the cards are free of excess static electricity by fanning the group of cards and tapping all four sides. Pull back the feed-hopper backing plate, and place the cards in the proper orientation, in the hopper. It is recommended that a batch include approximately 25-50 cards.

b. Begin from the V200:User '*user ID*' screen.

Keyboard: Press **F4**.
Mouse: Select **Scan>Batch scan**.

c. The Batch Scan screen (figure 18) displays.

d. Select **Auto number** or enter a batch number manually.

(1) To automatically generate a batch number:

(a) Select **Auto number**. The system displays the message: `Requesting next batch...`

(b) The batch number displays.

(2) To manually enter a batch number:

(a) Double-click the batch number to highlight.

(b) Type a new or existing BCN. Validation of the BCN occurs once you select **Scan** or **Accept**. The system displays the message: `Validating batch number...` If you are appending to an existing batch number, the Duplicate BCN screen displays once you select **Scan** or **Accept**.

Be aware if you have a manually-entered BCN that matches an upcoming automatically assigned BCN, an error will occur. Acknowledge the error and reselect Auto number.

e. Select **Start batch**. If an existing BCN has been entered, the system displays the Duplicate BCN screen. Select **Yes** and click **OK** to continue. Hollerith data appears on the screen as the cards are scanned.

f. If the View setting is On, then scanning stops at the specified interval (every fifth card, for example) and displays the image using PRC Digital Image Viewer.

g. The scan parameters may be reset at this time and the card re-scanned, or the card can be rejected.

When a batch is rejected all images are erased and cards must be reprocessed.

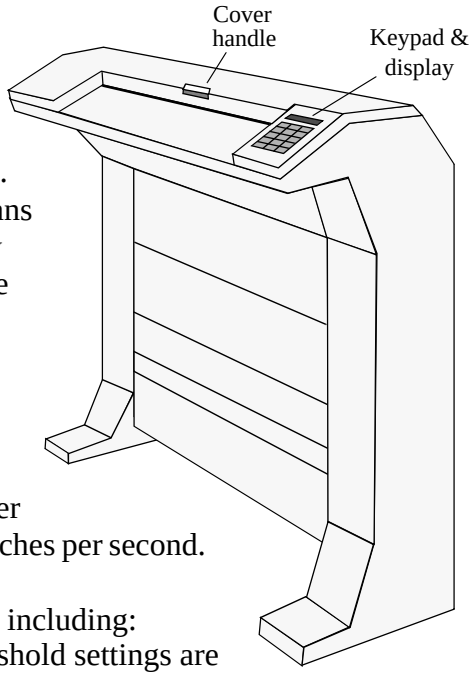
h. When all the cards for the current batch number have been scanned, select **Close Batch** from the Interactive Scan screen (figure 15). To start a new batch, return to step d. Otherwise, select **Finished**.

The records inserted into pending storage have default values assigned to the following fields: Image Change User ID (Img Chg Userid), Image Change Date (Image Chg Date), Index Change User ID (Idx Chg Userid), and Index Change Date (Idx Chg Date). (The user ID is set to UNKNOWN and the date is null.)

3. Large Format Scanner

3.1 Description

The large format scanner (model 6220 or 4250SV) converts hardcopy engineering drawings into a digital form suitable for storage in JEDMICS. The drawings are scanned at a resolution of up to 200 dpi and digital images created, which are then transmitted to receiving scan software on the scanner controller. The scan software compresses the image files and then stores them in a temporary file. The scanned images may then be viewed to assure image quality. Once the images are accepted, the image file and any text (index data) associated with the drawing(s) are stored in the JEDMICS pending repository.



Using JEDMICS, the large format scanner (model 6220) can scan engineering drawings up to 44-inch by 34-inch for landscape orientation and 34-inch by 9999-inch for portrait orientation. Drawings larger than E-size are normally framed into E-size images. The large format scanner (model 4250SV) scans drawings up to 34-inches wide, therefore, any drawing exceeding 34-inches in width must be scanned in portrait mode. The length of an unframed image which can be scanned is limited by the amount of memory in the scanner. Drawings (or documents) less than 20-inches in width are scanned at a rate of approximately 1½-inches per second. All other documents are scanned at approximately ¾-inches per second.

A variety of hardcopy media may be scanned including: paper, clear and matte mylar, or vellum. Threshold settings are available to accommodate these media types, as well as additional settings for pencil drawings and blueprint drawings. Should these preset threshold levels produce unsatisfactory results, a manual/keypad may be used to change these settings.

The equipment includes the scanner, an auxiliary (real-time) view monitor (optional), and a controller. For details on any of this equipment, refer to the manufacturer’s instruction manual.

3.2 Operating Procedures

Powering ON the Scanner

Follow these steps to power ON the scanner:

a. Ensure that the document feed path is clear, otherwise the scanner calibrates incorrectly during initialization.

b. Turn ON the power switch located on the back of the scanner above the power cord.

c. Allow the scanner to warm up for one to five minutes or until the messages, `Scanner Initializing` and `Scanner Ready`, display on the Liquid Crystal Display (LCD). The scanner calibrates automatically. Calibration is a process to account and adjust for machine-based variations to achieve a standard-level of performance.

If the center roller is dirty when the scanner is turned on, it will calibrate incorrectly. If the roller develops dark bands or becomes dirty, follow the maintenance procedures in the manufacturer's instruction manual. Turn the scanner OFF and ON to re-initiate calibration.

Powering ON the Monitor and Controller

Follow these steps to power ON the view monitor and controller:

Only power ON the view monitor and the controller after the scanner displays `Scanner Ready` on the LCD.

a. Turn ON the view monitor and adjust the screen brightness if necessary. Adjust the brightness knob to lighten the screen.

b. Turn ON the controller using the power switch located on the back, right panel of the controller.

c. Normally, (depending on your setup) the system will boot up in Microsoft Windows to the following screen:

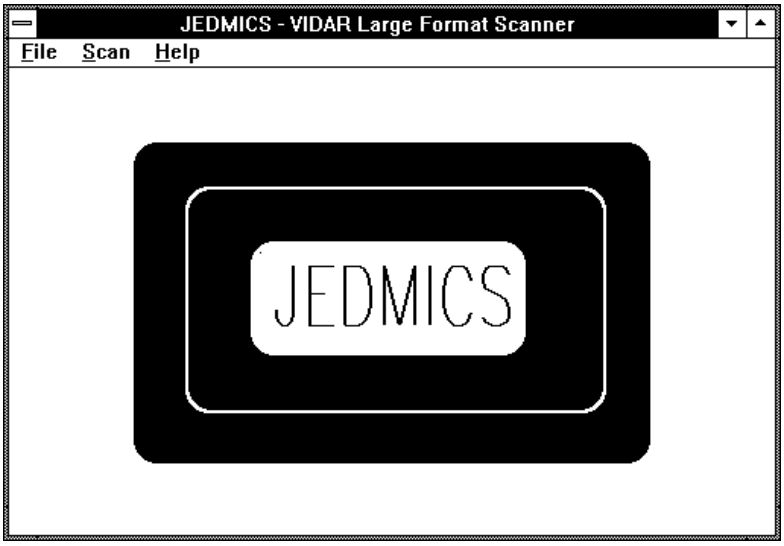


Figure 19.—JEDMICS-VIDAR Large Format Scanner Screen

d. If the JEDMICS-VIDAR Large Format Scanner screen (figure 19) does not appear, open Microsoft Windows. From the Program Manager, select the JEDMICS Program Group. In the JEDMICS Program Group, double-click on the JEDMICS icon and the JEDMICS-VIDAR Large Format Scanner screen displays.

The controller is equipped with a screen saver to prevent screen burn-in. After a period of inactivity, the screen saver automatically initiates. If the monitor is on, but the screen goes dark, press either SHIFT or CTRL or ALT or move the mouse to cancel the screen saver.

Turning LFS Real-Time Display Monitor On and Off

At some sites, the large format scanner, which is configured with an I/O controller, a monitor, and the scanner, also includes an optional real-time display monitor. This real-time display monitor may be turned on or off at any time in order to adjust brightness and contrast settings.

Verifying the Network Configuration

Prior to logging onto the large format scanner, verify that the network configuration has the correct network node name and image server node name.

a. From the JEDMICS-VIDAR Large Format Scanner screen, select **File>Configure**.

b. The Configuration screen displays.

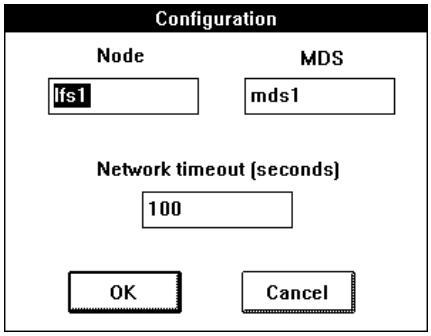


Figure 20.—Configuration Screen

c. Ensure that the following parameters are set.

(1) **Node**. This is the network node name of the scan controller. The default is lfs1. Check with your system administrator to verify the correct node name.

(2) **MDS**. This is the network node name of the Image Server where the scanned images are stored. The default is set to whatever Image Server (MDS) is set during installation; that is, mds1, mds2, ...mds(n).

(3) **Network timeout (seconds)**. This is the timeout period, in seconds, for all network transactions, that is, logging on/off or transferring files. The default is 100.

d. Click **OK** once the parameters are confirmed.

Logging on to JEDMICS

a. From the Windows Program Manager, select the JEDMICS Program Group.

b. Double-click the JEDMICS icon and proceed with the following steps when the JEDMICS-VIDAR Large Format Scanner screen displays:

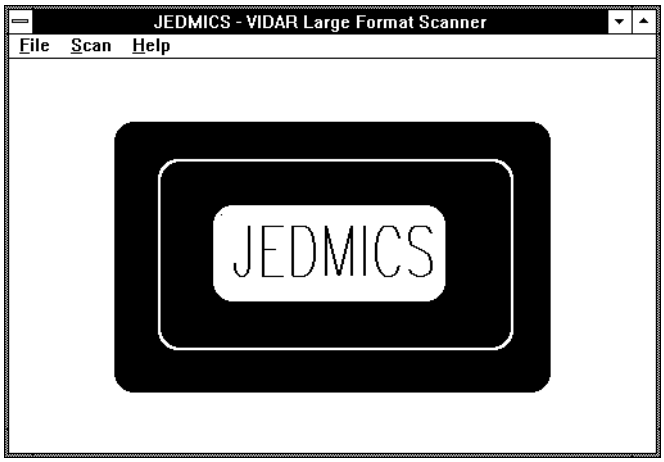


Figure 21.—JEDMICS-VIDAR Large Format Scanner Screen

Keyboard: Press **F2**.
Mouse: Select **File>Log On**.

c. The Vidar Scanner Logon Screen displays.

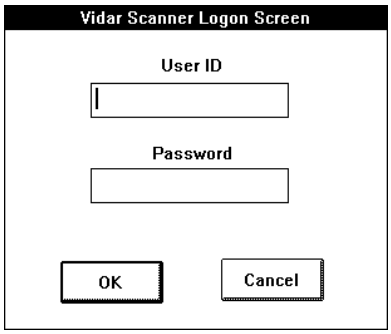


Figure 22.—Vidar Scanner Logon Screen

d. Type your user ID and press TAB.

e. Type your password.

f. Click **OK** or press ENTER to initiate log on.

(1) The system displays the message: `Logging on`. The hourglass icon remains displayed until the log-on process completes.

(2) The VIDAR:User '*user ID*' screen displays.

If an invalid user ID or password is used, the following message displays: `Invalid id or password`. Choose **OK** and reenter your user ID and password. After three failed attempts to log on the user is locked out until the system administrator intervenes. When a new password is required, log on to any JEDMICS workstation and access the Change Password menu option.

Logging off JEDMICS

When a scanning session is complete, log off JEDMICS by following these steps.

a. Begin from the VIDAR:User '*user ID*' screen.

Keyboard: Press **F10**.
Mouse: Select **File>Log off**.

The JEDMICS-VIDAR Large Format Scanner screen displays.

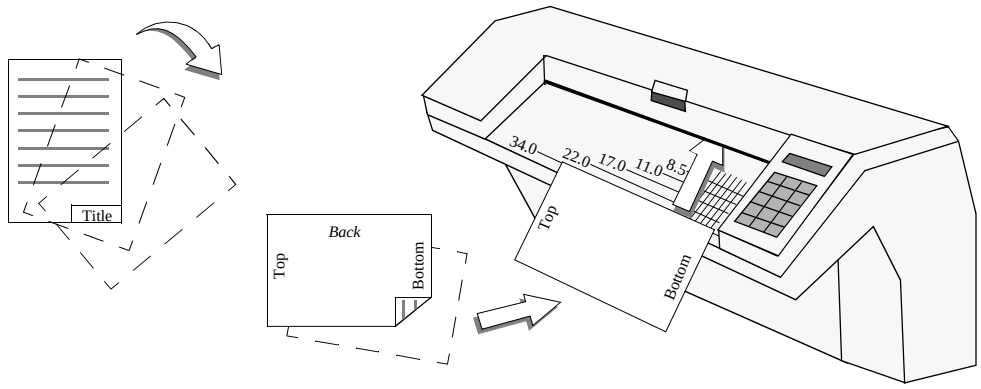
All scan parameters are cleared after every log off.

b. Log off audit data is sent to the database to properly log off the current user. If Microsoft Windows is closed or the controller is turned off prior to a user logging off properly, then upon startup of the scanner's controller, the previous user is logged off.

3.3 Loading a Drawing

Follow these steps to load a drawing into the scanner.

a. Hold the document in an upright position as you would normally read it. Then place the left edge of the document face down into the scanner until it reaches the roller.



b. While inserting the document face down into the scanner, align the document's edge with the boldest grid line printed on the right side of the scanner bed. Then press the up arrow key on the scanner's keypad once or twice in order for the scanner to "grab" the document. The document is now properly inserted for scanning.

Normally, a technical drawing will be printed landscape (the horizontal dimension longer than the vertical dimension). When you insert a landscape drawing into the scanner, it will be scanned in the portrait mode. Therefore, ensure that the "Orientation" setting is set to "Portrait" in the Scan Parameters screen for a landscape document and "Landscape" for a document printed portrait (horizontal dimension shorter than the vertical dimension).

3.4 Setting Scan Parameters

Before you start a scanning session, various scan parameters are set, such as whether (1) to enter associated text (index data) with the drawing(s) being scanned, (2) to scan multiple drawings or multi-sheet drawings into a batch, (3) to frame a multi-sheet drawing, or (4) to view the drawing at specified intervals. The scanner assumes you are scanning in portrait orientation.

The Scan Parameters screen differs depending on which model of the large format scanner being used. The Scan Parameters screens for the Vidar 6220 and the Vidar 4250SV follow.

Vidar 6220 Scanner

A sample of the Scan Parameters screen is shown below followed by an explanation of each option.

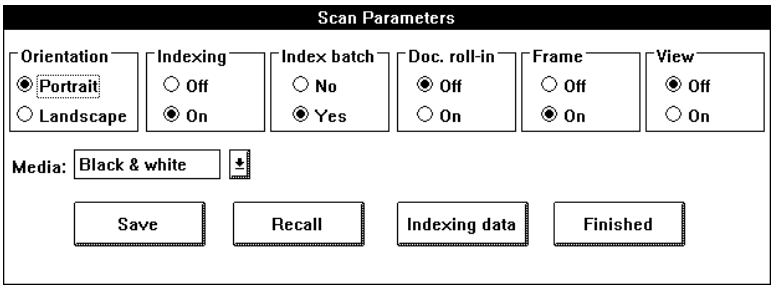


Figure 23.—Scan Parameters Screen on the Vidar 6220 Scanner

Parameter/Button Options	Description
Orientation	In portrait mode, page size parameters are used as entered (i.e., an E-size drawing would be scanned as 34-inches wide x 44-inches long). In landscape mode, width and length are switched (i.e., an E-size drawing would be scanned as 44-inches wide x 34-inches long). The default is portrait.
Indexing	Allows you to enter index data for the scanned image. Values are On or Off. The default is On. **Note**: Drawing size cannot be specified unless this setting is On.
Index batch	Duplicates the index data for each image and increments the sheet number thereby eliminating the need to enter index data more than once for a multi-sheet drawing. Values are No or Yes. The default is Yes.
Doc. roll-in	Instructs the scanner to roll-in the drawing a specified distance before beginning the scan. The recommended setting for roll-in is 2 or 2½-inches.
Frame	Frames drawings which are larger than an E-size page to allow for proper output to aperture cards. When this setting is On, the scanner automatically scans an E-size portion (34-inches x 44-inches if portrait orientation selected, 44-inches x 34-inches if landscape orientation selected) for the first image, rolls back as necessary, and scans the next frame. When this setting is Off, the scanner scans the drawing without frames. JEDMICS ignores the frame on/off setting for images smaller than E. **Note**: With the frame setting On, Frame # and # of Frames are displayed on the Index Screen and Frame # is automatically incremented.
View	Invokes the PRC Digital Image Viewer and displays the scanned image. The Viewer is not launched if the security classification of the drawing is something other than N (Unclassified).
Media	Allows you to specify the type of media that is being scanned. The threshold settings will be set based on the media type selected. The values are black and white, blueprint, mylar, vellum, linen, pencil, or manual/keyboard.
Save button	Saves the parameter settings in a user-defined file. The file must be an eight-character name with an *.ini* extension.
Recall button	Opens a dialog box listing directories and files containing predefined scan parameter settings.
Indexing data button	Accesses the Indexing Data screen.
Finished button	Closes the Scan Parameters screen.

Vidar 4250SV Scanner

A sample of the Vidar 4250SV Parameters screen follows with a brief explanation of each parameter.

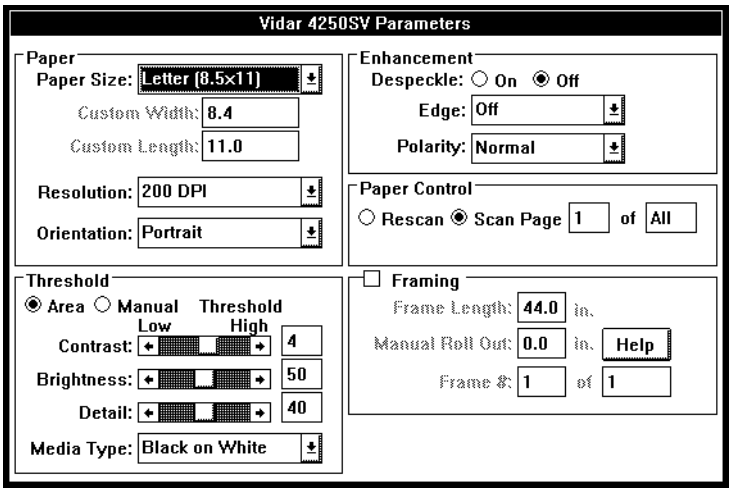


Figure 24.—Vidar 4250SV Parameters Screen

Parameter	Description
Paper	
Paper Size	Specifies the size of the drawing being scanned.
Custom Width	Specifies the paper width when Custom is selected for Paper Size.
Custom Length	Specifies the paper length when Custom is selected for Paper Size.
Resolution	Specifies the dots per inch (dpi) for the scanning session. JEDMICS supports the 200 dpi resolution.
Orientation	Specifies how the document is scanned. B-size drawing and above should be scanned in portrait.
Threshold	
Area	Sets the threshold automatically. The threshold can change to compensate for intensity changes in the document's background.
Manual	Allows threshold settings to be manually set. The value of a manually set threshold remains constant throughout the scan. Values are from 1 to 255.
Contrast	Changes the grayscale value of pixels to emphasize differences in tone in the document image. Values are from 0 (low) to 7 (high).
Brightness	Controls where the threshold is set with the lightness or darkness of a scan. Values are 0 (darker) to 100 (lighter).

Parameter	Description
Detail	Detects sharp transitions in gray scale level on the original document from one pixel to the next. Values are 0 (low) to 79 (high).
Media Type	Determines the polarity of a document, whether its background is black on white, white on black, or mixed.
Enhancement	
Despeckle	Removes speckles from scanned image. Values are On or Off.
Edge	Detects and sharpens solid lines and object edges that are smaller than one pixel. Values are On or Off.
Polarity	Color treatment of background and foreground. Values are Up (black) or Down (white), or Normal.
Paper Control	
Rescan	Values are On or Off.
Scan page __ of__	Rescans the specified document and/or specifies the page number(s) to rescan.
Framing	
Frame Length	Sets the frame length (in inches) for the document.
Manual Roll Out	Sets the scanner to roll out a sheet the distance specified before starting to scan. The values are from 0 to 20 tenths of an inch.
Frame #__ of__	Frame parameter set for the document.

3.5 Setting Scan Parameters on the Vidar 6220

a. Begin from the VIDAR:User '*user ID*' screen and complete the following steps to set scan parameters.

   Keyboard: Press **F6**.
   Mouse: Select **Scan>Scan parameters**.

   OR

   Select **Interactive Scan** from the pull-down menu or press **F5**; then select the **Parameters** button.

b. The Scan Parameters screen (figure 23) displays.

c. Select **Portrait** or **Landscape** to specify the orientation.

d. To enter related index data for the drawing(s) being scanned, set the Indexing option On. See Section 3.7, *Entering Indexing Data*.

Drawing size cannot be set unless the Indexing setting is On.

e. Select **Yes** for the Index batch parameter when more than one drawing is to be included in a batch or for a multi-sheet drawing. As the sheets are scanned, the # of Sheets field on the Indexing Data screen is automatically incremented to reflect sheet numbers, for example, 2 of 5, 3 of 5. Select **No** when batch indexing is not desired.

f. Select **On** for the Doc. roll-in parameter to instruct the scanner to roll-in the document a specified distance (in inches) before scanning. The standard roll-in value is 2½-inches.

g. Select **On** to Frame the image when the drawing size is larger than an E-size, and you want the image stored in E-size frames. This instructs the scanner to scan the drawing in equal overlapping E-size frames. Drawing width may be set up to the maximum for an E-size at the selected orientation (34-inches in portrait, 44-inches in landscape). When framing is turned on, the Indexing Data screen displays these fields and calculates the values based on the drawing size selected.

   To scan the drawing as one frame, select **Off**. The scan software automatically turns framing off for drawings smaller than E-size.

h. To view the scanned image at specified intervals, ensure the view setting is On. Once the drawing is scanned, the PRC Digital Image Viewer displays it on the screen.

If the Scan Parameters view setting is Off, you still have the View option on the Interactive Scan screen. See section 3.10.

i. Select the **Media Type**. The scanner makes automatic adjustments based on the type of media being scanned and the threshold settings are based on this setting.

   (1) Select the media/image type that will be scanned by pressing the arrow keys up or down.

   (2) The scanner adjusts to the type of media/image that is being scanned.

(3) Follow these steps to set the threshold using the manual/keypad:

(a) Ensure the auxiliary (real-time) view monitor is turned On.

(b) Load the drawing.

(c) Press **Scan to Screen** on the keypad. Use finger pressure on the keypad; using a pen or pencil causes the keypad to deteriorate.

(d) The keypad displays `Ready to Scan`. Press **Start Scan** to begin scanning.

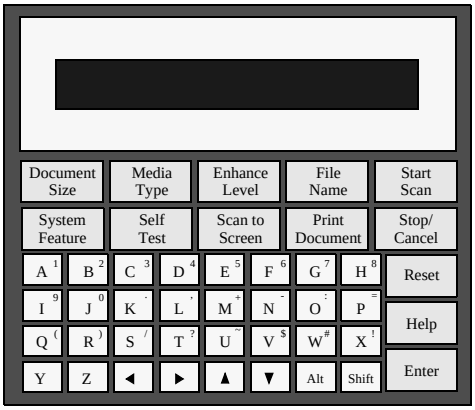


Figure 25.—Vidar 6220 Keypad

(e) The scanner displays the image on the real-time view monitor as the drawing is being scanned.

(f) Press UP or DOWN ARROWS on the keypad to lighten or darken the image.

(g) Press LEFT or RIGHT ARROWS on the keypad to move to the left or the right of the image.

The drawing can be scanned more than once while setting the threshold.

(h) Press **Stop/Cancel** and remove the drawing.

j. Once the parameters have been set, select **Save** to save the settings for future use. The Save Scanner Settings screen displays.

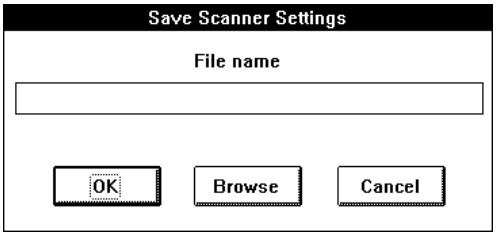


Figure 26.—Save Scanner Settings Screen

Saving Scanner Settings

(1) Enter the file's full path name. For example: **c:\edmics\bin\{*filename}.ini***. File names longer than eight characters are truncated.

(2) Choose **OK** to save the new settings with the specified file name. These settings will now be available for future use and may be accessed by selecting **Recall** on the Scan Parameters screen.

Browsing a List of Existing *.ini* Files

The filenames that are listed on the Browse screen are not all scanner setting *.ini* files. The first time you save scanner settings, you are asked to type in a filename. If you want your scanner settings to be your default values, you might name the file *defaults.ini*. Do not save new or revised scanner settings to any of the following *.ini* files: *cntrlcode.ini*, *config.ini*, *dialect.ini*, *distrib.ini*, or *drawsize.ini*. The site system administrator may need to customize these files to add one or more non-standard distribution codes or control codes.

(1) Select **Save** from the Scan Parameters screen.

(2) Select **Browse** to view a list of existing *.ini* files. The Browse screen displays.

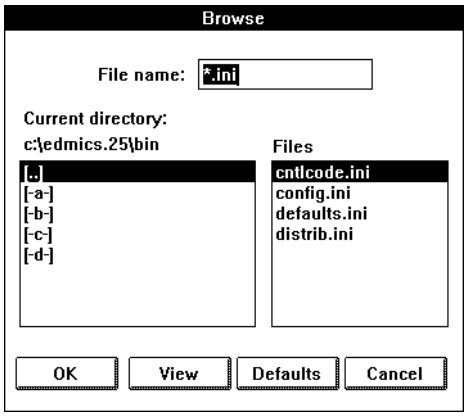


Figure 27.—Browse Screen

(3) Select the correct directory and drive.

(4) Double-click the *.ini* file or select the *.ini* file and click **OK**.

(5) Select **View** to ensure that the file contains the appropriate settings. The View File screen displays the contents of the file.

(6) Click **OK** to continue.

Recalling Scanner Settings

(1) Select **Recall** from the Scan Parameters screen to access a directory of existing *.ini* files. The Recall Scanner Settings screen displays.

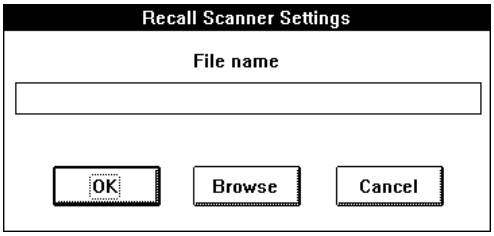


Figure 28.—Recall Scanner Settings Screen

(2) Enter the file's full path name. For example, **c:\edmics\bin\{filename}.ini**. If you are unsure of the file name, select **Browse** to view a list of existing files. Click **OK**.

(3) Select **View** from the Browse screen. To display the contents of a file, highlight the file, and click **OK**, or double-click to select the file.

(4) Click **OK** to close the Browse screen.

(5) Click **OK** to close the Recall Scanner Settings screen.

(6) Continue with the scanning process using the selected parameter settings.

k. Select **Finished** to close the Scan Parameters screen. All parameters are saved until they are reset or the JEDMICS scan software is re-initiated.

3.6 Setting Scan Parameters on the Vidar 4250SV

a. Begin from the VIDAR:User '*user ID*' screen and complete the following steps to set the scan parameters on the Vidar 4250SV scanner.

Keyboard: Press **F6**.
Mouse: Select **Scan>Scan Parameters**.

OR

Select **Interactive Scan** from the pull-down menu or press **F5**; then select the Parameters button.

b. The Vidar 4250SV Parameters screen displays.

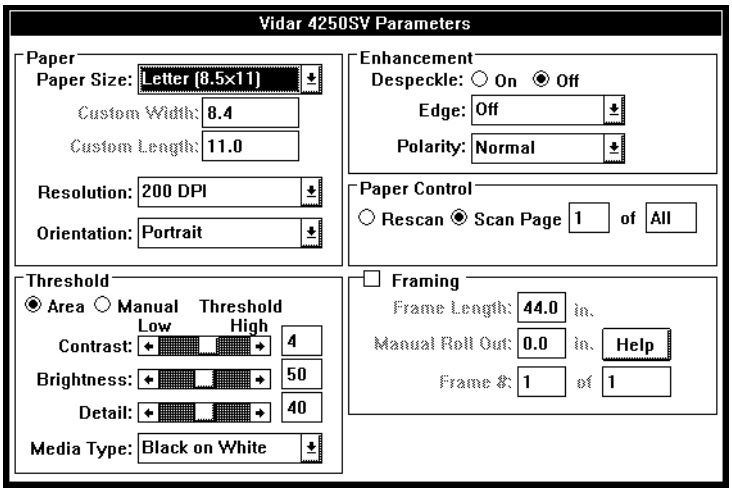


Figure 29.—Vidar 4250SV Parameters Screen

c. Select a standard **Paper Size** for the drawing being scanned or enter a custom size.

d. Select the **Orientation**—portrait or landscape. E-size drawings are always scanned in portrait mode.

e. The group of **Threshold** settings controls the brightness of scan. There are two threshold settings: Area or Manual.

(1) When Manual is set, the brightness level for example, becomes the threshold and remains constant throughout the scan. These settings are performed from the Vidar 4250SV manual keypad.

For specific instructions on using the manual keypad, see the *4250SV Scanner User's Manual*.

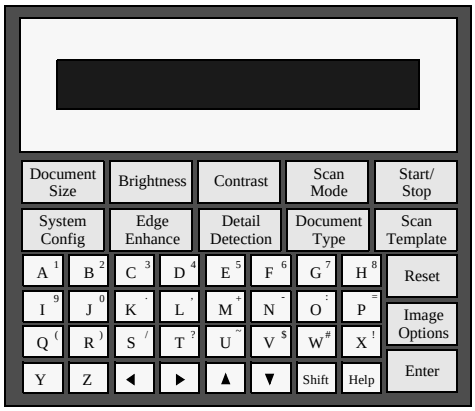


Figure 30.—Vidar 4250SV Keypad

(2) When Area thresholding is set the brightness level is automatically calculated.

f. Set the **Media Type**. This setting refers to the background of the document being scanned. When a drawing (or document) being scanned has both black on white and white on black (reverse type), select the Mixed setting.

g. The **Enhancement** parameter settings improve the image by suppressing the background noise. This may consist of random flecks, water marks, folds in the paper, or dark areas on the drawing.

h. Set the **Paper Control** only if you have to rescan a drawing (or document).

i. Set the **Frame** length for the current document.

Once these settings have been made, return to the Interactive Scan screen.

3.7 Entering Indexing Data

The text associated with a single sheet drawing, or a multi-sheet drawing, is entered manually via the Indexing Data screen. This text provides identifying information to JEDMICS, such as the document title, document number, CAGE code, revision level, control code, Weapon System Code, and security classification.

a. Access to Indexing Data may be done in one of three ways:

(1) From the VIDAR:User '*user ID*' screen, press **F7**.

(2) From the Scan Parameters screen, select **Indexing data**.

(3) From the menu bar, select **Scan>Index data**.

A sample of the Indexing Data screen follows with a description of each field.

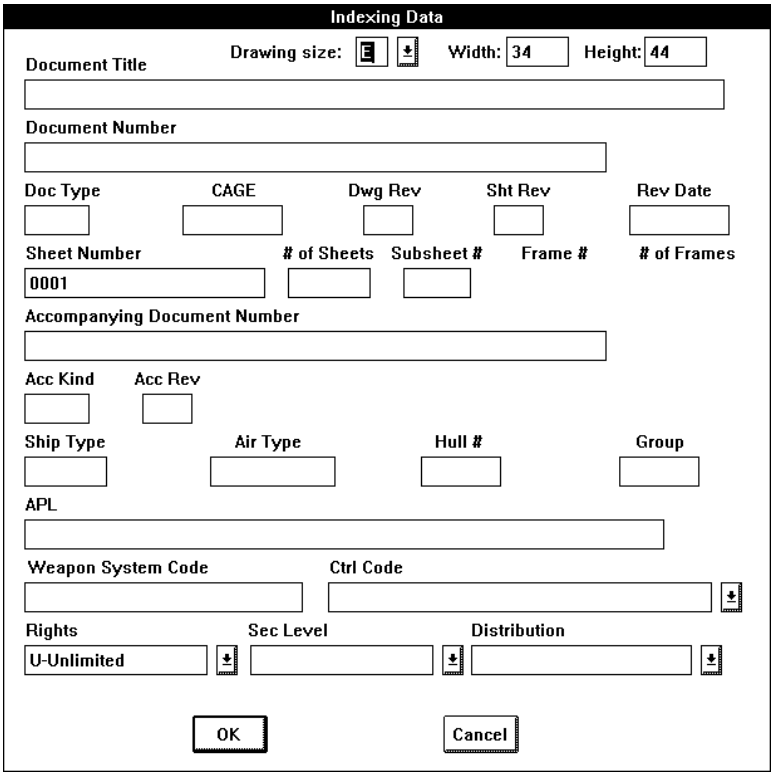


Figure 31.—Indexing Data Screen

Indexing Data Field	Description
Drawing Size: Width: Height:	The size of the drawing being scanned. Width and Height fields are automatically populated when a standard drawing size is selected.
Document Title	A 40-character alphanumeric field describing a document or drawing.
Document Number	A 32-character field identifying a document or drawing.
Doc Type	A two-character code identifying the document or drawing, for example, EL for Equipment List or PL for Parts List.
CAGE	Commercial and Government Entity (CAGE) code that identifies the manufacturer, government agency, or activity associated with the drawing.
Dwg Rev	Revision level of the drawing. Beginning with JEDMICS Release 2.5, drawing revision is always replaced with sheet revision. Right justified.
Sht Rev	Sheet revision level for drawings with multiple revision and sheet levels. Right justified.
Rev Date	Calendar date of drawing revision.

Indexing Data Field	Description
Sheet Number	A 12-character numeric right-justified field that is assigned to each sheet of a multi-sheet drawing. JEDMICS zero fills the first four characters of the field.
# of Sheets	A four-character right justified field for the total number of sheets in a multi-sheet drawing.
Subsheet #	Portion (subsheet) of the drawing. JEDMICS zero fills the alpha or numeric subsheet right justified field to three spaces, for example, '00A'. For accompanying documents this field must equal the base drawing revision. See Section 3.8, *Scanning Accompanying Documents*, for more information.
Frame #	A four-character field that displays the frame number of each frame in a series of frames. JEDMICS automatically zero pads and right justifies the entry to four characters if the original length is three or fewer characters.
# of Frames	A four-character field that displays the number of frames in a series. JEDMICS automatically zero pads and right justifies the entry to four characters if the original length is three or fewer characters.
Accompanying Document Number	A 32-character numeric field assigned to an accompanying document. Accompanying documents are usually text associated with a base drawing, e.g., an addendum. Applies only to H format cards.
Acc Kind	A two-character field that describes the type of accompanying document, e.g., AD for addendum. (Acc Kind is the equivalent of document type.)
Acc Rev	A two-character field that reflects the revision level of an accompanying document.
Ship Type	The type of ship to which the document applies. Ship Type and hull number together form the STHN field.
Air Type	Aircraft type/model or device; a six-character alphanumeric code identifying an aircraft by broad performance and use characteristics.
Hull #	A four-character numeric right justified field that is part of a ship's identifying code.
Group	A four-character field which identifies the group designation of a drawing.
APL	A 35-character alphanumeric field for Allowance Parts List reference number; the APL will be associated with the item which a drawing represents. Unused at this time.

Indexing Data Field	Description
Weapon System Code	A 15-character field that identifies a weapon system. This code enables images to be tied to a unique group code that can be used to control migration of pending images to permanent storage on specific optical platters.
Ctrl Code	A two-character alphabetic field listing control activity codes.
Rights	A one-character alphabetic field listing the Rights code. The default is U-Unlimited.
Sec Level	A one-character alphabetic field listing the security classifications. Must be a value of N-Unclassified.
Distribution	A one-character alphabetic field listing the distribution codes. The default is A-Unlimited.

b. Enter the appropriate index data. Press TAB or use the mouse to move between fields. A single quote is not a valid entry in any field except the Document Title field.

Control codes are based on MIL-HDBK-331D; Distribution codes are based on DoD Directive 5230.24 and MIL-STD-1806, with additions by JEDMICS sites.

c. Enter the drawing size. The table below shows the standard default drawing sizes. If the drawings (or documents) being scanned are standard sizes, width and length values need not be entered. Measurements are entered only when scanning a non-standard drawing size.

SIZE	MEASUREMENT	SIZE	MEASUREMENT
A	8½ by 11 inches	G	11 by 90 inches
B	11 by 17 inches	H	28 by 143 inches
C	17 by 22 inches	J	34 by 176 inches
D	22 by 34 inches	K	40 by 143 inches
E	34 by 44 inches	R	26 by 54 inches
F	28 by 40 inches		

Drawing sizes can be modified to reflect the dimensions of an individual drawing. When a drawing falls between two sizes, set the drawing size to the larger of the two and reduce the dimensions accordingly. This ensures proper output to the printers.

d. Click **OK** to accept the index data. The Indexing Data screen closes.

3.8 Scanning Accompanying Documents

On any of the JEDMICS scanners, if a value is entered in the Subsheet # field on the Indexing Data screen for an accompanying document to a value other than the base document drawing revision, when the index data is saved (accepted) an informational message box is displayed with the message:

```
Sub sheet value must equal Sheet rev
```

Click **OK** to continue. When you have completed your index data entries, click **OK** on the Indexing Data screen. The Subsheet # field is populated with the drawing revision, overwriting any previously entered values.

A scanned record is assumed to be an accompanying document if the Accompanying Document Number field on the Indexing Data screen is populated.

Due to the limitations of SQL forms used in JEDMICS, when the Indexing Data screen is used interactively if the sheet revision is edited, the system automatically changes drawing revision to equal sheet revision. This change is transparent to the scan operator until the Indexing Data screen is closed and reopened.

3.9 Interactive Scanning on the Vidar 4250SV Scanner

The Interactive Scan screen allows you to (1) generate a batch control number for your scan session, (2) add indexing data, (3) set scan parameters, (4) initiate the scanning process, (5) view the image once the drawing (or document) has been scanned to check image quality, and (6) accept or reject the image.

A sample of the Vidar 4250SV Interactive Scan screen follows; a table describes each option.

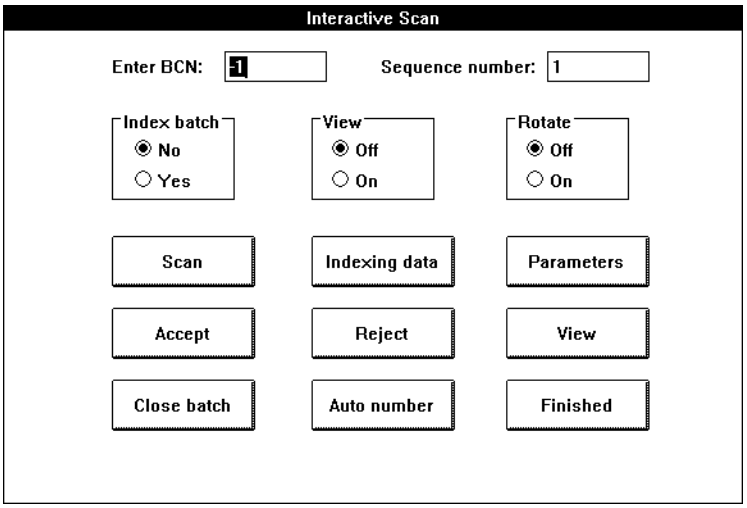


Figure 32.—Interactive Scan Screen (Vidar 4250SV)

Parameters and Function Buttons	Description
Enter BCN:	A five-character field used to display a system-generated BCN or to enter a BCN manually. When entering a BCN, the system limit is 32,000. The system-generated BCN is the recommended method.
Sequence number:	Allows you to track the number of images being scanned in a batch. The sequence number (up to five characters) displays the sequential number of the image currently being scanned.
Index batch	Determines whether index data is being defined for the drawings being scanned into a batch. Setting the value to yes causes the sheet number to increment for each sheet scanned and accepted to the pending database. Values are Yes or No.
View	Determines automatic viewing of every scanned image. When the setting is On the PRC Viewer program is invoked.
Rotate	Automatically rotates E-size drawings and frames of J or K-size drawings when the setting is On. When the setting is On, the image is rotated before viewing. The image is stored in JEDMICS in the orientation displayed on your screen.
Scan	Initiates the scan session.
Indexing data	Accesses the Indexing Data screen.
Parameters	Accesses the Vidar 4250SV Parameters screen.
Accept	Transfers the image in a compressed form to the pending database.
Reject	Re-initializes communication between the scanner and the scan software.

Parameters and Function Buttons	Description
View	Invokes the PRC Digital Image Viewer and displays the scanned image. The Viewer is not launched if the security classification of the drawing is something other than N (Unclassified).
Close batch	Closes the current batch control number.
Auto number	Instructs JEDMICS to generate and display the next available batch control number. If Auto number isn't selected, the scanner software generates one automatically.
Finished	Ends the scanning session. All indexing data resets to the default values.

Procedure

This procedure assumes the scan parameters and index data have been entered.

a. Begin from the VIDAR:User '*user ID*' screen and complete the following steps.

Keyboard: Press **F5**.
Mouse: Select **Scan>Interactive Scan**.

b. The Interactive Scan screen (figure 32) displays.

c. Select **Auto number**.

(1) To automatically generate a batch number:

(a) Select **Auto number**. The system displays the message: `Requesting next batch...`

(b) The batch number displays.

(2) To manually enter a batch number:

(a) Double-click the batch number to highlight.

(b) Type a new or existing BCN. Validation of the BCN occurs once you select **Scan** or **Accept**. The system displays the message: `Validating batch number...` If you are appending to an existing batch number, the Duplicate BCN screen displays once you select **Scan** or **Accept**.

Be aware if you have a manually-entered BCN that matches an upcoming automatically assigned BCN, an error will occur. Acknowledge the error and reselect Auto number.

d. Select **Scan** to initiate the scanning process. If an existing BCN has been entered, the system displays the Duplicate BCN screen (figure 16). Select **Yes** and click **OK** to continue. Once the scanning process has completed, the image is automatically displayed in the PRC Digital Image Viewer if the View parameter was set On. A sample follows.

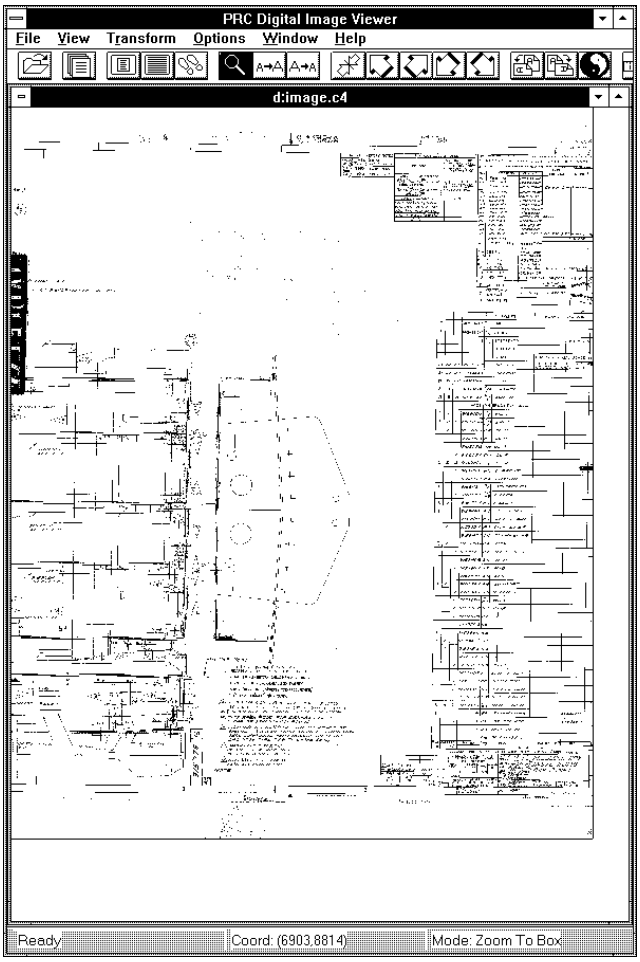


Figure 33.—PRC Digital Image Viewer Screen

e. Select **Accept** to transfer the compressed, tiled image to the Image Server.

OR

Select **Reject** if the image does not meet the quality standards.

Reset can be used at any time. This sends a command to the scanner and re-initializes communication between the scanner and the scan software.

f. Select **Close batch** when all drawings (or documents) have been scanned for the current batch number. The system displays the message `Completed close batch number...` The hour glass icon remains actively displayed until the batch closing process completes.

g. Select **Finished** to end the scan session. Any open batches are closed, and the VIDAR:User '*user ID*' screen displays.

The records inserted into pending storage have default values assigned to the following fields: Image Change User ID (Img Chg Userid), Image Change Date (Image Chg Date), Index Change User ID (Idx Chg Userid), and Index Change Date (Idx Chg Date). (The user ID is set to UNKNOWN and the date is null.)

3.10 Interactive Scanning on Vidar 6220 Scanner

The Interactive Scan screen allows you to (1) generate a batch control number for your scan session, (2) add indexing data, (3) set scan parameters, (4) initiate the scanning process, (5) view the image once the drawing (or document) has been scanned to check image quality, and (6) accept or reject the image.

A sample of the Vidar 6220 Interactive Scan screen follows; a table describes each option.

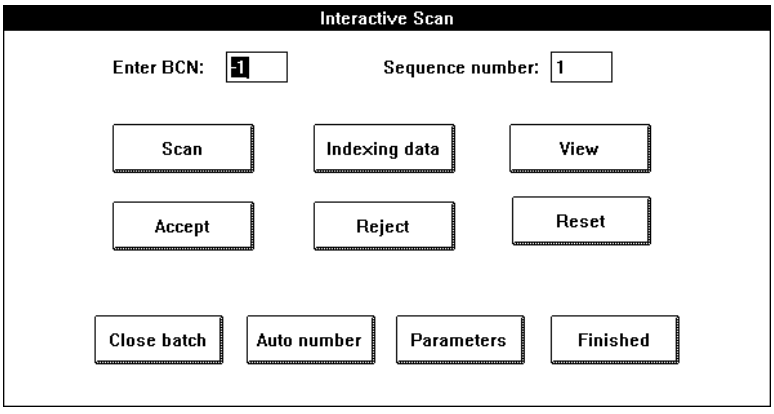


Figure 34.—Interactive Scan Screen (Vidar 6220)

Parameters and Function Buttons	Description
Enter BCN:	A five-character field used to display a system-generated BCN or to enter a BCN manually. When entering a BCN, the system limit is 32,000. The system-generated BCN is the recommended method.
Sequence number:	Allows you to track the number of images being scanned in a batch number. The sequence number (up to five characters) displays the sequential number of the image currently being scanned within the batch.
Scan	Initiates the scanning process.
Indexing data	Displays the Indexing Data screen.
View	Invokes the PRC Digital Image Viewer and displays the scanned image. The Viewer is not launched if the security classification of the drawing is something other than N (Unclassified).
Accept	Transfers the image in a compressed form to the pending file.
Reject	Rejects the image.
Reset	Re-initializes communication between the scanner and the scan software.
Close batch	Closes the current batch control number.
Auto number	Instructs JEDMICS to generate and display the next available batch control number.
Parameters	Accesses the Scan Parameters screen.
Finished	Ends the scanning session. All indexing data resets to the default values.

Procedure

This procedure assumes the scan parameters and index data have been entered.

a. Begin from the VIDAR:User '*user ID*' screen and complete the following steps.

Keyboard: Press **F5**.
Mouse: Select **Scan>Interactive Scan**.

b. The Interactive Scan screen (figure 34) displays.

c. Select **Auto number**.

(1) To automatically generate a batch number:

(a) Select **Auto number**. The system displays the message: `Requesting next batch...`

(b) The batch number displays.

(2) To manually enter a batch number:

(a) Double-click the batch number to highlight.

(b) Type a new or existing BCN. Validation of the BCN occurs once you select **Scan** or **Accept**. The system displays the message: `Validating batch number...` If you are appending to an existing batch number, the Duplicate BCN screen displays once you select **Scan** or **Accept**.

Be aware if you have a manually-entered BCN that matches an upcoming automatically assigned BCN, an error will occur. Acknowledge the error and reselect Auto number.

d. Select **Scan** to initiate the scanning process. If an existing BCN has been entered, the system displays the Duplicate BCN screen (figure 16). Select **Yes** and click **OK** to continue. Once the scanning process has completed, the image automatically displays in the PRC Digital Image Viewer if the View parameter is On.

e. Select **Accept** to transfer the compressed, tiled image to the Image Server.

OR

Select **Reject** if the image does not meet the quality standards.

Reset can be used at any time. This sends a command to the scanner and re-initializes communication between the scanner and the scan software.

f. Select **Close batch** when all drawings (or documents) have been scanned for the current batch number. The system displays the message `Completed close batch number...`

g. Select **Finished** to end the scan session. Any open batches are closed, the indexing information resets to the original default values, and the VIDAR:User '*user ID*' screen displays.

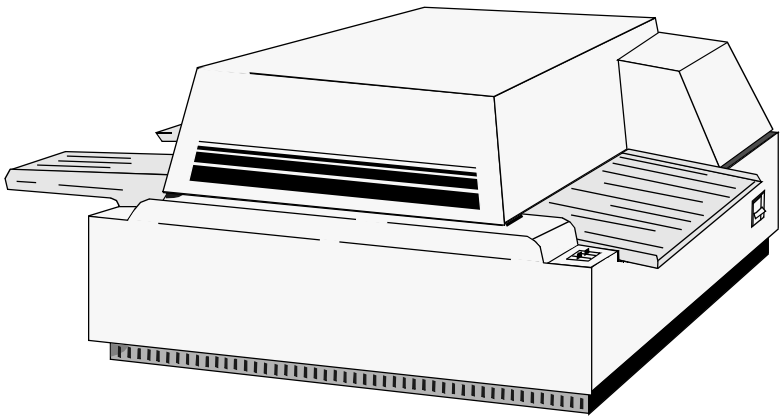
The records inserted into pending storage have default values assigned to the following fields: Image Change User ID (Img Chg Userid), Image Change Date (Image Chg Date), Index Change User ID (Idx Chg Userid), and Index Change Date (Idx Chg Date). (The user ID is set to UNKNOWN and the date is null.)

This page is intentionally blank.

4. Dual-Sided Page Scanner

4.1 Description

The dual-sided page scanner (DSPS) produces high quality digital images from 8½-inch by 11-inch hardcopy at high-speed input rates up to 500 pages per hour with a resolution of 200 dots per inch. Because of the design of this scanner, back-side scanning occurs almost simultaneously with front-side scanning, thereby scanning both sides of a page in one pass and converting the information on the page into a stream of raster data (pixels) that represent the scanned image.



The DSPS configuration includes the following equipment:

- Page scanner
- View monitor
- I/O controller

Refer to the manufacturer's instruction manual for further detail.

4.2 Operating Procedures

Power ON the DSPS equipment in this order: monitor, I/O controller, scanner.

Powering ON the Monitor and Controller

a. Turn ON the monitor power switch.

b. Turn ON the I/O controller power switch.

c. The mouse pointer takes the shape of an hourglass indicating the system is performing a task that will take a few seconds. Once the mouse pointer takes the shape of the arrow, power ON the scanner.

The I/O controller is equipped with a screen saver to prevent screen burn-in. After a period of inactivity, the saver automatically initiates. If the monitor is on and the screen goes dark, press either SHIFT or CTRL or ALT or move the mouse to cancel the screen saver.

Powering ON the Scanner

a. Turn ON the power switch for the scanner which is located on the bottom right side when facing the unit. Once the scanner has been powered ON, it emits an audible chirp.

b. After the READY light is lit, documents can be fed into the scanner. This light is located below the density slide controls on the right front corner of the unit.

c. After the scanner is ready, you can log on to JEDMICS.

Setting the Density Controls

The density slide controls are located on the right front corner of the scanner on the same panel with the READY light. Settings range from 1 (dark) to 5 (light).

Verifying the Network Configuration

Prior to logging onto the dual-sided page scanner, verify the network configuration to ensure that the scan controller has the correct network node name and Image Server node name.

a. From the Windows Program Manager, select the JEDMICS Program Group, then double-click the JEDMICS icon.

b. From the JEDMICS - TDC DS-2600 Page Scanner screen, select **File>Configure**.

c. The Configuration screen displays.

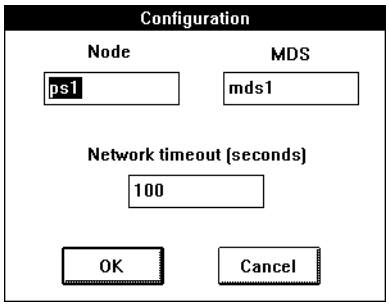


Figure 35.—Configuration Screen

d. Ensure that the following parameters are set.

(1) **Node**: This is the network node name of the scan controller. The default is ps1. Verify the correct node name with your system administrator.

(2) **MDS**: This is the network node name of the Image Server to which the scanned images will be transferred. The default is mds1. Verify the correct node name with your system administrator.

(3) **Network timeout (seconds)**: This is the timeout period, in seconds, for all network transactions, i.e., logging on/off or transferring files. The default is 60.

(4) Click **OK** once the parameters are confirmed and/or modified.

Logging on to JEDMICS

To log on to JEDMICS follow these steps:

a. From the Windows Program Manager select the JEDMICS Program Group, then double-click the JEDMICS icon. The hourglass icon displays indicating log-on processing.

b. The JEDMICS - TDC DS-*model* Page Scanner screen displays:

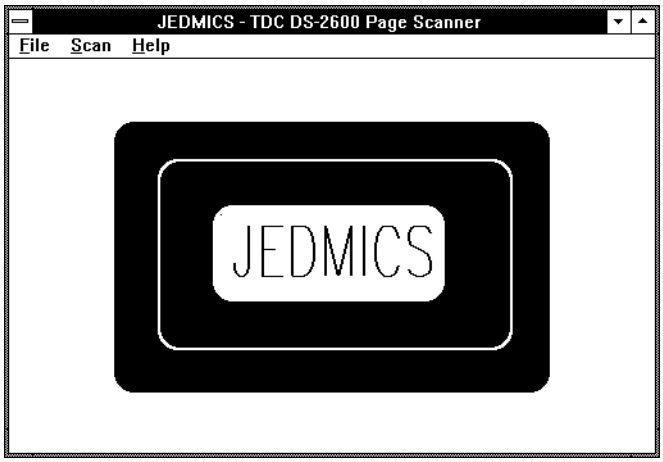


Figure 36.—JEDMICS TDC DS-2600 Page Scanner Screen

Keyboard: Press **F2**.
Mouse: Select **File>Log on**.

c. The TDC Scanner Logon Screen displays.

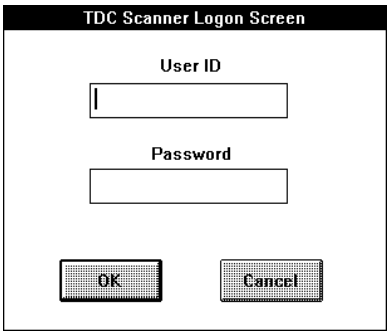


Figure 37.—TDC Scanner Logon Screen

d. Type your user ID and press TAB, or use the mouse to move to the Password field.

e. Type your assigned password.

f. Click **OK** or press ENTER to initiate log on.

g. The system displays the message: `Logging on to JEDMICS.` The hourglass icon displays indicating system processing.

If an invalid user ID or password is used, the following message appears: `Invalid userid/password`. Click **OK** and reenter your user ID and password. After three failed attempts to log on the user is locked out until the system administrator intervenes. When a new password is required, log on to any JEDMICS workstation and access the Change Password menu option.

h. Your user ID is displayed in the title bar. A sample screen follows.

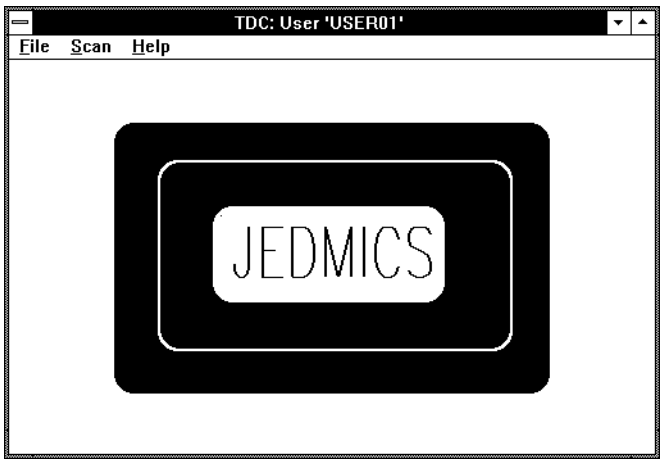


Figure 38.—TDC:User '*user ID*' Screen

Once you log off, the title bar returns to its original state. See figure 36.

Logging off JEDMICS

When the scanning session is complete, log off by completing these steps.

a. Begin from the TDC:User '*user ID*' screen.

Keyboard: Press **F10**.
Mouse: Select **File>Log off**.

All scan parameters are reset to the default values after every log off.

b. The JEDMICS - TDC DS-*model* Page Scanner screen displays and audit data is sent to the database.

If Microsoft Windows is closed or the controller is turned off prior to a user logging off properly, then upon startup of the scanner the previous user is logged off.

4.3 Loading Documents/Drawings

Complete these steps to load documents/drawings into the scanner:

a. Ensure that document(s) contain no staples or paper clips.

b. Place the document(s) in the automatic document feeder face down with the top edge of the document fed into the scanner first.

c. Place the document(s) against the edge guide on the feed tray. Move the paper guides of the tray to the desired width and open slightly to avoid paper jams due to friction.

Approximately 25 pages can be scanned at one time.

d. Move the document(s) along the edge guide until the scanner transport accepts the document(s).

When the document feeder tray is empty, the system displays the message:
`No paper in document feeder to scan.`

4.4 Scan Parameters

Before you start a scanning session several settings (parameters) can be specified, such as whether (1) to enter indexing data with the drawing(s) (or documents) being scanned, (2) to view the drawing(s) at specified intervals, or (3) to rotate the image for output to an aperture card production device. The scanner assumes you are scanning single-sided pages; you have the option of scanning double-sided pages.

Samples of the Scan Parameters screen with the Indexing setting On and Off follows. In addition, the screens show when the view setting is On and Off. When the Index setting is On, related text is entered on the Indexing Data screen.

- Sample screen when Indexing is On.

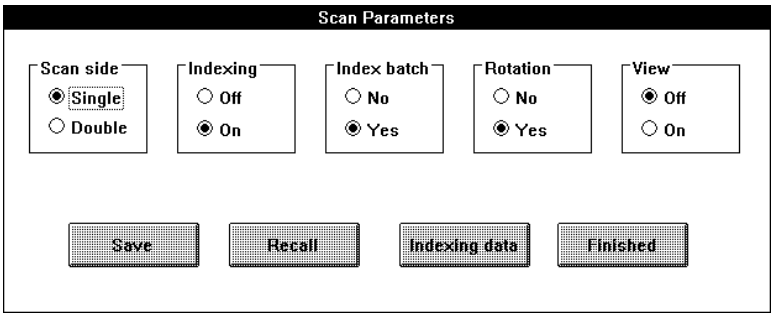


Figure 39.—Scan Parameters-Indexing On Screen

- Sample screen when Indexing is Off.

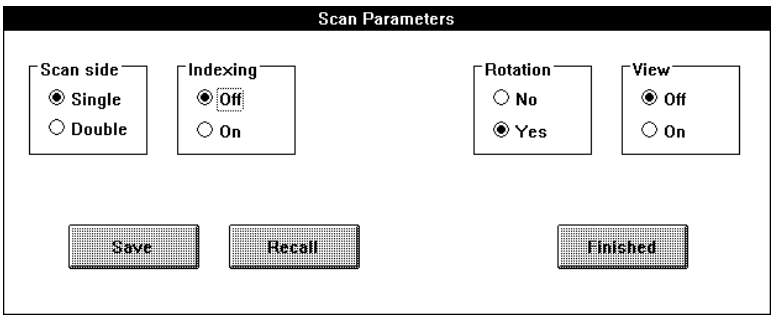


Figure 40.—Scan Parameters-Indexing Off Screen

When the View setting is off, the Frequency setting is not available.

The table below provides a brief description of each parameter.

Parameters/Function Buttons	Description
Scan side	Specifies whether you are scanning single- or double-sided documents. Values are Single or Double.
Indexing	Allows you to enter indexing data for a document (or drawing). When Off is selected, the Index batch parameter and Indexing data button are not shown on this screen. Values are On or Off.
Index batch	Permits the index data for each image to be duplicated and increments the sheet number. Setting the value to No leaves the number as entered. Values are Yes or No.

Parameters/Function Buttons	Description
Rotation	Ensures that documents, once scanned, will have the proper orientation when output to an Aperture Card Output (ACO) device. Selecting Yes causes the image(s) to be rotated clockwise 90° for proper orientation to an ACO device. Selecting No causes the image to be stored unaltered.
View	Invokes the PRC Digital Image Viewer and displays the scanned image. The Viewer is not launched if the security classification of the drawing is something other than N (Unclassified).
Frequency	Specifies the interval rate for viewing the document(s). For example, when 5 is selected, the system automatically displays every 5th image. Frequency only applies when the View setting is On.
Save	Saves parameter settings to a file you define.
Recall	Retrieves previously defined parameter settings from a directory of *.ini* files.
Indexing data	Accesses the Indexing Data screen to enter associated index data for the documents (or drawings) being scanned.
Finished	Closes the Scan Parameters screen.

Setting Scan Parameters for Interactive or Batch Scanning

This section describes the procedures for setting the parameters that may be used when you are scanning in batch mode or scanning interactively.

a. Begin from the TDC:User '*user ID*' screen and complete the following steps.

Keyboard: Press **F6**.
Mouse: Select **Scan>Scan parameters**.

OR

Select **Scan>Batch scan** or press **F4**, then select **Scan parameters**.

OR

Select **Scan>Interactive scan** or press **F5**, then select **Parameters**.

The Scan Parameters screen (figure 39) displays.

b. Specify whether you are scanning a single or double-sided document.

c. Select **On** for Indexing to scan a drawing with multiple sheets or to scan multiple drawings with multiple sheets and have text associated with these images. See Section 4.5, *Entering Indexing Data*. If the setting is Off, skip to step e.

d. Select **Yes** for Index batch to duplicate indexing data for a multi-sheet drawing. Selecting Yes increments the sheet number and eliminates the need to reenter index data for each sheet. Select **No** when batch indexing is not desired.

e. If an aperture card is required as output, set the Rotation to **Yes**. This causes the image to be rotated clockwise 90^{o} for proper orientation to the aperture card output device.

f. Select **On** or **Off**, as appropriate, to view the scanned image, using the PRC Digital Image Viewer. When the View setting is On, you must specify a Frequency value. For example, to display every 5th image, enter 5.

Even if Off has been selected, you may view an image from the Interactive Scan screen (figure 46) by selecting either the **View Front** or **View Back** (for double-sided scanning) button.

g. Save these settings by selecting **Save** to store these settings in an *.ini* file you name. The Scanner Settings File Selection screen displays.

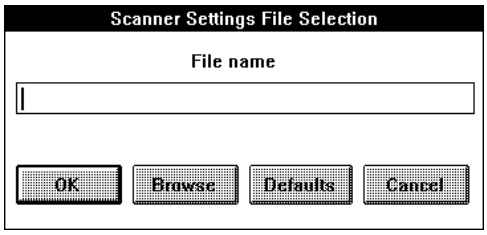


Figure 41.—Scanner Settings File Selection Screen

Saving Scanner Settings

(1) Enter the file's full path name. For example, **c:\edmics\bin\{*filename*}*.ini***. File names longer than eight characters are truncated.

(2) Click **OK**. These settings may be accessed by selecting **Recall** from the Scan Parameters screen (figure 39).

Browsing a List of Existing .ini Files

The filenames that are listed on the Browse screen are not all scanner setting *.ini* files. The first time you save scanner settings, you are asked to type in a filename. If you want your scanner settings to be your default values, you might name the file *defaults.ini*. Do not save new or revised scanner settings to any of the following *.ini* files: *cntrlcode.ini*, *config.ini*, *dialect.ini*, *distrib.ini*, or *drawsize.ini*. The site system administrator may need to customize these files to add one or more non-standard distribution codes or control codes.

(1) Select **Save** from the Scan Parameters screen.

(2) Select **Browse** from the Scanner Settings File Selection screen to view a list of existing files. The Browse screen displays.

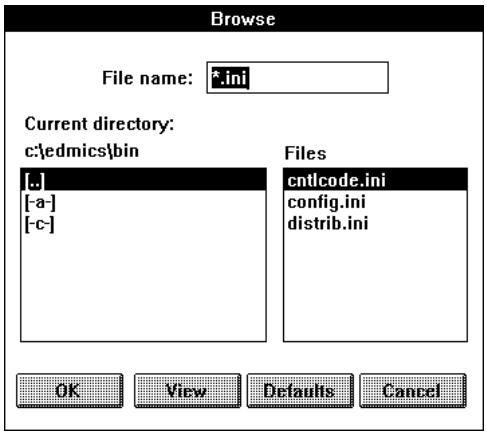


Figure 42.—Browse Screen

(3) Select the correct directory and drive.

(4) Double-click on the *.ini* file or select the *.ini* file and click **OK**.

(5) If you are unsure of the *.ini* filename, select **View** to ensure that the file contains the appropriate settings. The View File screen displays.

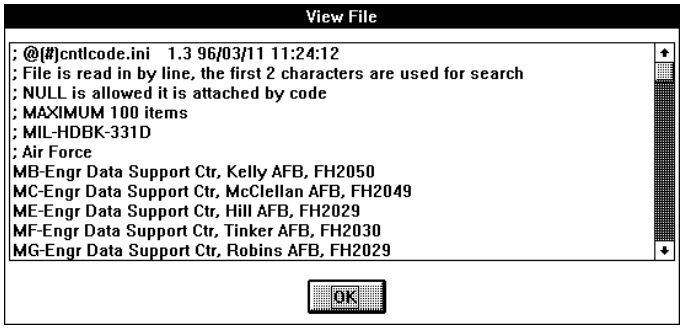


Figure 43.—View File Screen

(6) Click **OK** to continue.

Recalling Scanner Settings

(1) From the Scan Parameters screen, select **Recall** to access a directory of existing *.ini* files.

(2) The Scanner Settings File Selection screen displays.

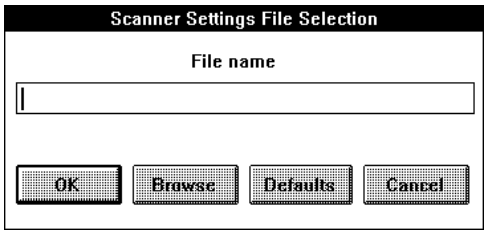


Figure 44.—Scanner Settings File Selection Screen

(3) Enter the file's full path name. For example, **c:\edmics\bin\{*filename}.ini***. If you are unsure of the file path name, select **Browse** to view a list of existing files. Click **OK**.

Or, accept the *defaults.ini* file by selecting **Defaults**.

h. Select **Finished** to close the Scan Parameter window, or select **Cancel** to return to the previous screen without defining a file name.

4.5 Entering Indexing Data

Text associated with a document (or drawing) being scanned is entered on the Indexing Data screen for multi-sheet drawings or for a single-sheet drawing. You may enter information including the document title, document number, drawing revision, sheet number, CAGE code, revision date, control activity code, or the security classification.

a. Access to the Indexing Data screen may be performed in one of three ways:

(1) From the TDC:User '*user ID*' screen, press **F7**.

(2) From the Scan Parameters screen, select **Indexing data**.

(3) From the menu bar, select **Scan>Index data**.

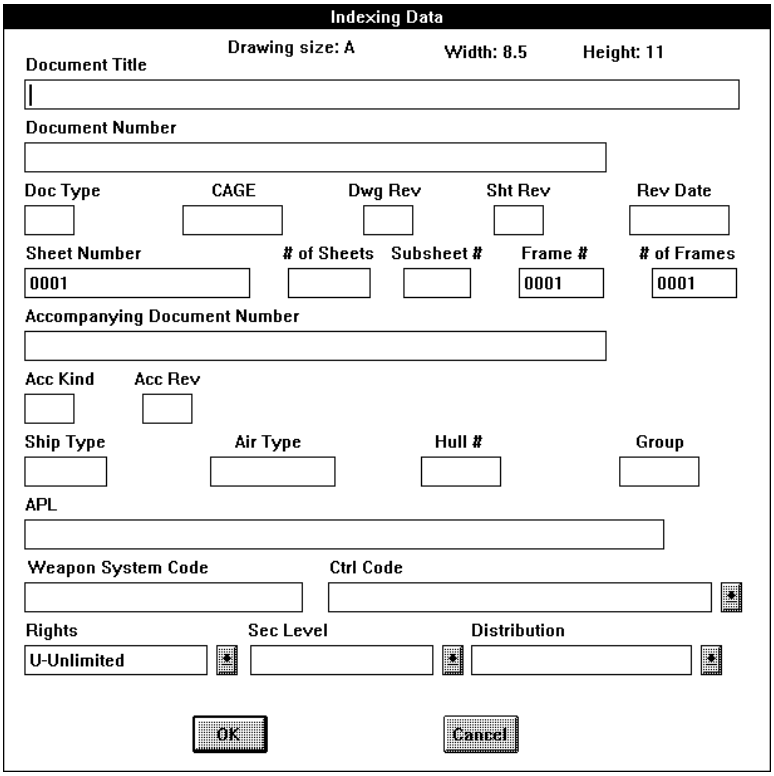


Figure 45.—Indexing Data Screen

Indexing Data Field	Description
Drawing Size: Width: Height:	The size of the drawing being scanned. Width and Height fields are automatically populated when a standard drawing size is selected.
Document Title	A 40-character alphanumeric field describing a document or drawing.
Document Number	A 32-character field identifying the drawing.
Doc Type	A two-character code identifying the document, for example, EL for Equipment List or PL for Parts List.
CAGE	Commercial and Government Entity (CAGE) code that identifies the manufacturer, government agency, or activity associated with the drawing.
Dwg Rev	Revision level of the drawing. Beginning with JEDMICS Release 2.5, drawing revision is always replaced with sheet revision. Right justified.
Sht Rev	Sheet revision level for drawings with multiple revision and sheet levels. Right justified.
Rev Date	Calendar date of drawing revision.

Indexing Data Field	Description
Sheet Number	A 12-character numeric right-justified field that is assigned to each sheet of a multi-sheet drawing. JEDMICS zero fills the first four characters of the field.
# of Sheets	A four-character right justified field for the total number of sheets in a multi-sheet drawing.
Subsheet #	Portion (subsheet) of the drawing. JEDMICS zero fills the alpha or numeric right justified field to three spaces, for example, '00A'. For accompanying documents this field must equal the base drawing revision. See Section 4.6, *Scanning Accompanying Documents*, for more information.
Frame #	A four-character field that displays the frame number of each frame in a series of frames. JEDMICS automatically zero pads and right justifies the entry to four characters if the original length is three or fewer characters.
# of Frames	A four-character field that displays the number of frames in a series. JEDMICS automatically zero pads and right justifies the entry to four characters if the original length is three or fewer characters.
Accompanying Document Number	A 32-character numeric field assigned to an accompanying document. Accompanying documents are usually text associated with a base drawing, e.g., an addendum. Applies only to H format cards.
Acc Kind	A two-character field that describes the type of accompanying document, e.g., AD for addendum. (Acc Kind is the equivalent of document type.)
Acc Rev	A two-character field that reflects the revision level of an accompanying document. A single numeric revision level is zero padded.
Ship Type	The type of ship to which the document applies. Ship type and hull number together form the STHN field. In accordance with MIL-M-38761/2A, Ship Type is trimmed of leading spaces, left justified and padded with trailing spaces to four spaces.
Air Type	Aircraft type/model or device; a six-character alphanumeric code identifying an aircraft by broad performance and use characteristics.
Hull #	A four-character numeric right justified field that is part of a ship's identifying code. Leading spaces are zero filled to four spaces.
Group	A four-character field which identifies the group designation of a drawing.
APL	A 35-character alphanumeric field for Allowance Parts List reference number; the APL will be associated with the item which a drawing represents. Unused at this time.

Indexing Data Field	Description
Weapon System Code	A 15-character field that identifies a weapon system. This code enables images to be tied to a unique group code that can be used to control migration of pending images to permanent storage on specific optical platters.
Ctrl Code	A two-character alphabetic field listing control activity codes.
Rights	A one-character alphabetic field listing the Rights code. The default is U-Unlimited.
Sec Level	A one-character alphabetic field listing the security classifications. Must be a value of N-Unclassified.
Distribution	A one-character alphabetic field listing the distribution codes. The default is A-Unlimited.

Press TAB to move between fields.

A single quote is not a valid entry in any field except the Document Title field.

b. After completing your entries, click **OK** to accept the index data.

4.6 Scanning Accompanying Documents

On any of the JEDMICS scanners, if a value is entered in the Subsheet # field on the Indexing Data screen for an accompanying document to a value other than the base document drawing revision, when the index data is saved (accepted) an informational message box is displayed with the message:

```
Sub sheet value must equal Sheet rev
```

Click **OK** to continue. When you have completed your index data entries, click **OK** on the Indexing Data screen. The Subsheet # field is populated with the drawing revision, overwriting any previously entered values.

A scanned record is assumed to be an accompanying document if the Accompanying Document Number field on the Indexing Data screen is populated.

Due to the limitations of SQL forms used in JEDMICS, when the Indexing Data screen is used interactively if the sheet revision is edited, the system automatically changes drawing revision to equal sheet revision. This change is transparent to the scan operator until the Indexing Data screen is closed and reopened.

4.7 Interactive Scanning

Interactive Scan allows you to (1) generate a batch control number for your scan session, (2) add index data, (3) set scan parameters, (4) scan one page at a time, (5) view each scanned image to ensure the threshold levels are correct, and (6) accept or reject the scanned image.

A sample of the Interactive Scan screen follows with a description of each option.

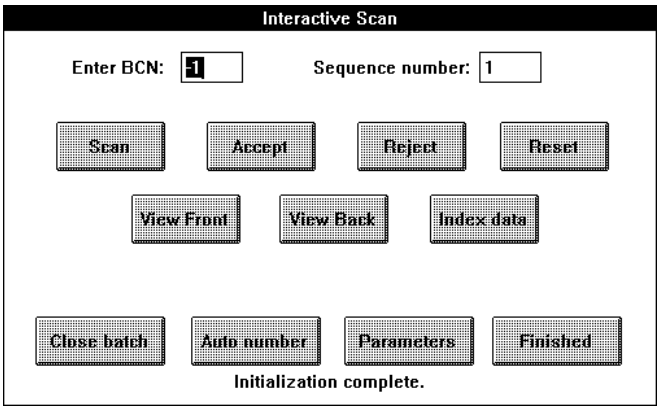


Figure 46.—Interactive Scan Screen

Option	Description
Enter BCN:	A five-character field used to display a system-generated BCN or to enter a BCN manually. When entering a BCN, the system limit is 32,000. The system-generated BCN is the recommended method.
Sequence number:	A five-character display field that shows the number of drawings within the current batch.
Scan	Initiates a scanning session.
Accept	Sends the image to the pending file and builds the associated index record in the database.
Reject	Rejects the image.
Reset	Reinitiates the scanner.
View Front	Displays the front side of the document page.
View Back	Displays the back side of the document page.
Index data	Provides access to the Indexing Data screen.
Close batch	Closes the batch number for the current session.

Option	Description
Auto number	Instructs JEDMICS to generate and display the next available batch control number.
Parameters	Accesses the Scan Parameters screen.
Finished	Ends the scan session. All indexing data resets to default values.

Procedures

These procedures assume that the scan parameters and indexing data have been defined.

a. Place the documents/drawings face down in the document feeder.

b. Begin from the TDC:User '*user ID*' screen (figure 38).

Keyboard: Press **F5**.
Mouse: Select **Scan>Interactive scan**.

c. The Interactive Scan screen displays. The following screen samples display the view options for scanning either a single-sided or a double-sided document.

- Sample screen for a single-sided scan.

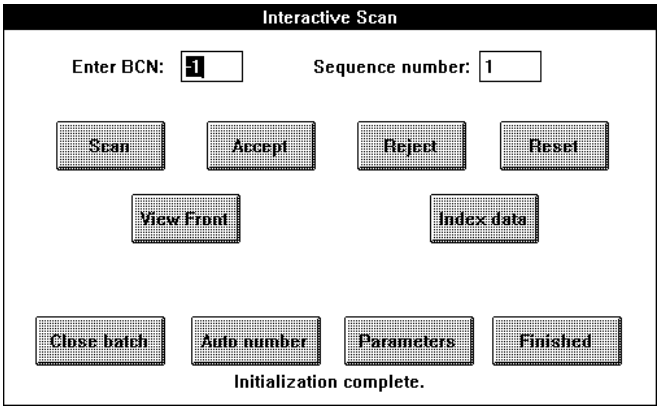


Figure 47.—Interactive Scan Screen with the Single-Sided Scan Parameter Setting

- Sample screen for a double-sided scan.

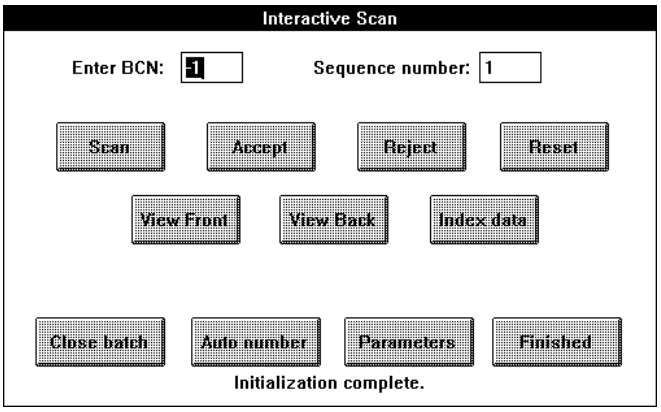


Figure 48.—Interactive Scan Screen with the Double-Sided Scan Parameter Setting

d. Select **Auto number** to generate a batch number automatically.

(1) To automatically generate a batch number:

(a) Select **Auto number**. The system displays the message: `Requesting next batch number...`

(b) The batch number displays and the system displays the message: `Auto number complete...`

(2) To manually enter a BCN:

(a) Double-click the batch number to highlight.

(b) Type a new or existing BCN. Validation of the BCN occurs once you select **Scan** or **Accept**. The system displays the message: `Validating batch number...` If you are appending to an existing batch number, the Duplicate BCN screen displays once you select **Scan** or **Accept**.

Be aware if you have a manually entered BCN that matches an upcoming automatically assigned BCN, an error will occur. Acknowledge the error and reselect Auto number.

e. Select **Scan** to begin the scanning process. If you are appending to an existing BCN, the Duplicate BCN screen displays. Select **Yes** and click **OK**. A sample screen follows.

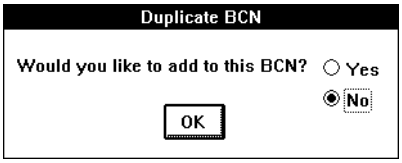


Figure 49.—Duplicate BCN Screen

The system displays a series of informational messages as the page is scanned.

If the input tray is empty, the system displays the message: `No paper in document feeder to scan.`

f. Select **View Front** or **View Back** as appropriate. The PRC Digital Image Viewer displays an overview of the image.

g. Select **Accept** to store the digitized image and its associated indexing data. The system displays the message `Accepted`. If the image is of unacceptable quality, select **Reject** and the image is not stored in JEDMICS.

h. Select **Close batch** when you have finished scanning images into the current batch number.

i. Select **Finished** to end the scanning session. The JEDMICS database system is notified, the current batch is closed, the indexing information resets to the original default values, and the TDC:User '*user ID*' screen displays.

Select RESET ONLY when an error occurs.

j. The PRC Digital Image Viewer remains open until you select **File>Exit** from the JEDMICS - TDC-DS-*model* Page Scanner menu bar or **File>Close All & Minimize** from the Viewer menu bar.

4.8 Batch Scanning

Scanning your documents (or drawings) in batches allows you to (1) scan multiple pages without operator intervention and have them identified by one batch number, (2) scan pages and view at a specified interval rate using the PRC Digital Image Viewer, and (3) accept or reject the image after quality checking.

A sample Batch Scan screen follows with a description of the options.

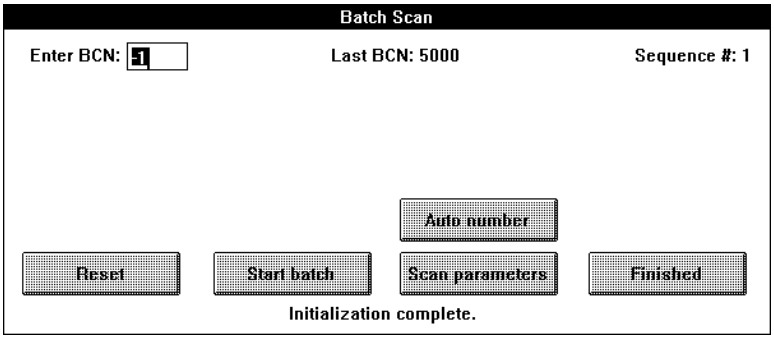


Figure 50.—Batch Scan Screen

Option	Description
Enter BCN:	A five-character field used to display a system-generated BCN or to enter a BCN manually. When entering a BCN, the system limit is 32,000. The system-generated BCN is the recommended method.
Last BCN:	Displays the batch number for the last batch job of current session.
Sequence #:	A five-character display field that shows the number of drawings within the current batch.
Auto number	Instructs JEDMICS to generate and display the next available batch control number.
Reset	Reinitiates the scanner.
Start batch	Initiates the scan session.
Scan parameters	Accesses the Scan Parameters screen
Finished	Ends the scan session. All indexing data resets to default values.

Procedures

a. Place the drawings or documents face down in the document feeder.

Keyboard: Press **F4**.
Mouse: Select **Scan>Batch scan**.

b. The Batch Scan screen (figure 50) displays.

c. JEDMICS identifies the cards being scanned by batch control number.

(1) To automatically generate a batch number:

(a) Select **Auto number**. The system displays the message: `Requesting next batch number...`

(b) The batch number displays and the system displays the message: `Auto number complete...`

(2) To manually enter a BCN:

(a) Double-click the batch number to highlight.

(b) Type a new or existing BCN. Validation of the BCN occurs once you select **Scan** or **Accept**. The system displays the message: `Validating batch number...` If you are appending to an existing batch number, the Duplicate BCN screen displays once you select **Scan** or **Accept**.

Be aware if you have a manually entered BCN that matches an upcoming automatically assigned BCN, an error will occur. Acknowledge the error and reselect Auto number.

d. Select **Scan parameters** following the procedures in Section 4.4, *Scan Parameters*.

e. Select **Start batch**. If you are appending to an existing BCN, the Duplicate BCN screen (figure 49) displays. Select **Yes** and click **OK** if you want to append to the existing BCN, or **No** to return to the Batch Scan screen.

f. If the View setting is on, scanning will stop at the specified interval rate, for example, every 5th image. The image is displayed using the PRC Digital Image Viewer. The PRC Viewer application remains open until you log off. A sample of the screen follows.

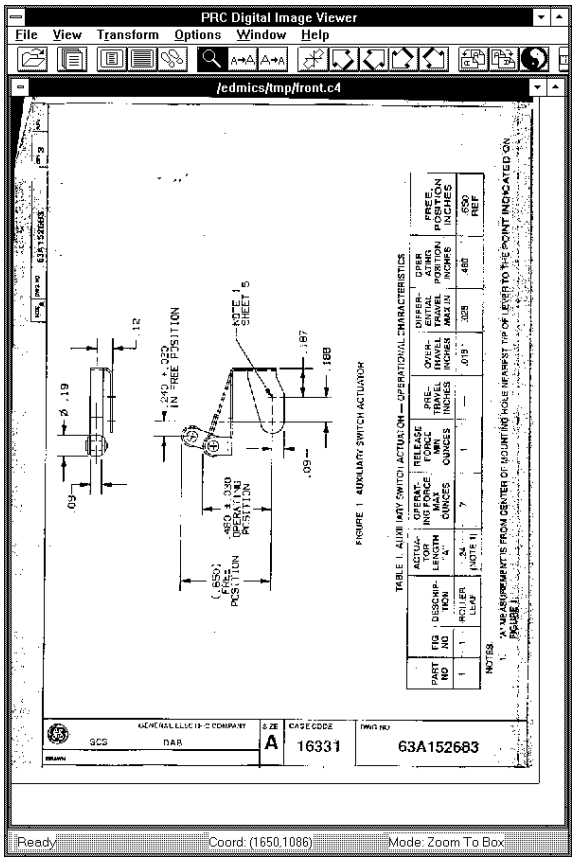


Figure 51.—PRC Digital Image Viewer Screen

(1) Click the JEDMICS Batch Scan screen to select **Accept** or **Reject** the image.

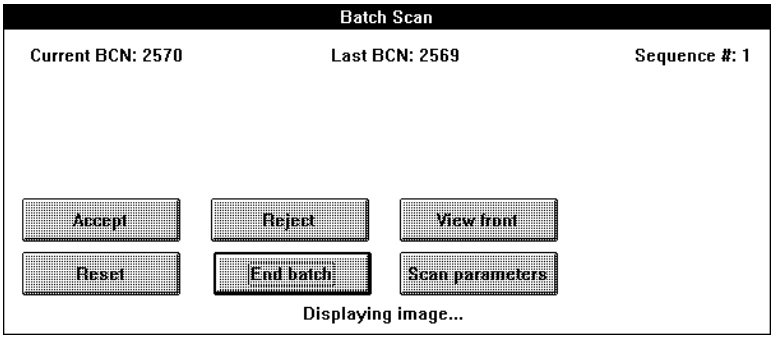


Figure 52.—Batch Scan Screen

(2) If the image meets your quality standards, select **Accept** to resume scanning. When **Reject** is selected, the scanning proceeds to the next page in the document feeder tray and does not save the image in JEDMICS.

(3) Select **Finished** when all batch scanning is complete. The current batch is closed, the indexing information resets to the original default values, and the TDC:User '*user ID*' screen displays.

g. If the View setting is off, the scanner proceeds until the document feeder tray is empty or you select **End batch**.

(1) If the document feeder tray is empty, the system displays the message: `No paper in document feeder to scan`. Click **OK** to continue. The system displays `Resetting scanner, please wait.` and `Scanner Reset` messages.

(2) Select **Finished**. The TDC:User '*user ID*' screen redisplays and the batch closes.

If a paper jam or other problem occurs requiring operator intervention, select **Reset** to re-initialize the scanner. If the BCN is still open, scanning may resume. If the controller requires rebooting, you must reenter the correct BCN to resume scanning into a specific batch.

Appendix A.—Dialect Maps

This page is intentionally blank.

This appendix provides detailed information on specific dialects that are currently supported in JEDMICS. In all dialects the following rules apply:

1. If the sheet number is valid, then it is right justified and filled with zeros to make the field four characters in length, for example, sheet number = 22 → sheet number = 0022.

   An expanded sheet number (that is, dialect 21) has up to 12 digits. Zero padding always forces the decimal to the fifth position, for example, 1.00145 → 0001.00145.

2. If the number of sheets is valid, then it is right justified and filled with zeros to make the field four characters in length, for example, number of sheets = 22 → number of sheets = 0022.

3. If the frame number is valid, then it is right justified and filled with zeros to make the field four characters in length.

4. If the number of frames is valid, then it is right justified and filled with zeros to make the field four characters in length.

5. JEDMICS will ensure that all sheet number and frame number fields will not be NULL.

6. The drawing revision is always set from/by sheet revision.

Selecting a Dialect on the Aperture Card Scanner

Select the appropriate scan mode from the Scan Parameter screen by scrolling the list of supported dialects. The tables shown on the following pages provide the details of each dialect.

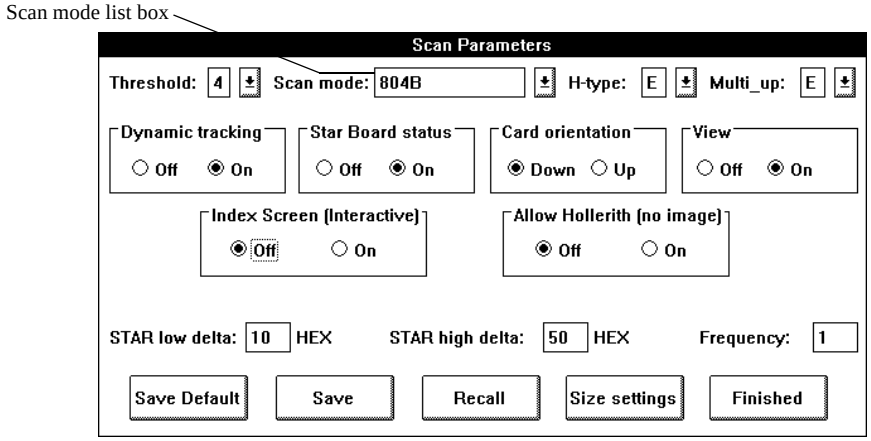


Figure 53.—Scan Parameters Screen

Based on whatever dialect scheme is specified the Hollerith data is validated for consistency with the dialect rules shown in the dialect maps on the following pages. Use only those dialects that apply to your site.

Dialect Scheme	Scan Mode Options shown on Scan Parameters screen	Source Document *
Normal	Normal[a]	N/A
Special_T Reject	Special_T Rej[b]	N/A
Special_T	Special_T[c]	N/A
804B	804B	MIL-STD-804B
Scheme 38761/2A	38761/2A	Aperture Card Format/Dialect Report for NSWC Crane Div, Louisville April 24, 1992
804C	804C[d]	MIL-STD-804C

a. Follows the same rules as 804B except that the frame number and number of frames is captured.
b. If a card type T is rejected because it has a "*" in column 25 or a "-" in columns 23–25, the card must be scanned using Special_T scan mode. This scan mode only accepts cards with a "-" in columns 23–25, or a "*" in column 25.
c. Accepts cards that have a dash or asterisk in the sheet number column. Used to scan aperture cards with multiple drawings on the film. Note: When this mode is selected the scan window size is set to the value in the Special-T field (A through H, J, K, or R).
d. Interprets the Hollerith data strictly in accordance with MIL-STD-804C.

Dialect No.	Scan Mode Options shown on Scan Parameters screen	Source Document *
7	688_Class_Tvd	Aperture Card Format/Dialect Report for Mare Island NSY, 7FEB92
19	PSNS_Trident	Aperture Card Format/Dialect Report for Puget Sound NSY, 4DEC92
20	PSNS_Trident_TVD	Aperture Card Format/Dialect Report for Puget Sound NSY, 4DEC92
21	38761/1	Aperture Card Format/Dialect Report for Naval Air Technical Services facility, 15DEC92
24	NNSY_NAVSEA	Aperture Card Format/Dialect Report for Norfolk NSY, 4DEC92
25	NNSY_LHD	Aperture Card Format/Dialect Report for Norfolk NSY, 4DEC92
28	CG 47_993_Class	Aperture Card Format/Dialect Report for Pearl Harbor NSY, 15NOV93

* In addition to the source document, any enhancements made by means of the software change process are included.

Dialect No.	Scan Mode Options shown on Scan Parameters screen	Source Document *
29	FFG_&_Class	Aperture Card Format/Dialect Report for Pearl Harbor NSY, 15NOV93
30	Marine_Corps_T	Aperture Card Format/Dialect Report for Marine Corps, Logistics Base, 22FEB93
33	PHD_NSWC_W/O	Aperture Card Format/Dialect Report for Port Hueneme Div., 29APR93
34	PHD_NSWC_With	Aperture Card Format/Dialect Report for Port Hueneme Div., 29APR93
35	PHD_NSWC/T	Aperture Card Format/Dialect Report for Port Hueneme NSWC, 29APR93
37	NTSCO_T/T2	Aperture Card Format/Dialect Report for Orlando NTSC, 28JUN93
39	NTSCO_T/B	Aperture Card Format/Dialect Report for Orlando NTSC, 28JUN93
42	AMCOM_T	Aperture Card Format/Dialect Report for US Army Missile Command, 20SEP94
44	WR_ALC_H	Aperture Card Format/Dialect Report for Warner Robins AFB, 30SEP94
45	WR_ALC_T	Aperture Card Format/Dialect Report for Warner Robins AFB, 30SEP94
46	OC_ALC_H	Aperture Card Format/Dialect Report for Oklahoma City ALC, Tinker AFB,17FEB95
47	OC_BO_H	Aperture Card Format/Dialect Report for Oklahoma City ALC, Tinker AFB, 17FEB95
48	RIA_T	Aperture Card Format/Dialect Report for Rock Island Arsenal (RIA), 17FEB95
49	RIA_H	Aperture Card Format/Dialect Report for Rock Island Arsenal (RIA), 17FEB95
50	RIA_WP_T	Aperture Card Format/Dialect Report for Rock Island Arsenal (RIA), 17FEB95
51	NADEP_T	Aperture Card Format/Dialect Report for Naval Air Station, Jacksonville, FL, 17FEB95
52	NADEP_P3/T	Aperture Card Format/Dialect Report for Naval Air Station, Jacksonville, FL, 17FEB95

* In addition to the source document, any enhancements made by means of the software change process are included.

Dialect No.	Scan Mode Options shown on Scan Parameters screen	Source Document *
53	CECOM_H	Aperture Card Format/Dialect Report for CECOM, 27FEB96
54	CECOM_T	Aperture Card Format/Dialect Report for CECOM, 27FEB96
55	SM_ALC_H	Aperture Card Format/Dialect Report for SM-ALC, 16JUNE95
56	OO_ALC_H	Aperture Card Format/Dialect Report for OO-ALC, 11DEC95
57	SA_ALC_H	Aperture Card Format/Dialect Report for SA-ALC, 16NOV95
58	ATCOM_T	Aperture Card Format/Dialect Report for ATCOM, 16NOV95
59	ATCOM_H	Aperture Card Format/Dialect Report for ATCOM, 16NOV95
60	TACOM_T	Aperture Card Format/Dialect Report for TACOM, 12DEC95
61	TACOM_H	Aperture Card Format/Dialect Report for TACOM, 12DEC95
62	ARDEC_T/ECP	Aperture Card Format/Dialect Report for ARDEC, 18DEC95
63	ARDEC_TL	Aperture Card Format/Dialect Report for ARDEC, 18DEC95
64	ARDEC_FRANKFORD	Aperture Card Format/Dialect Report for ARDEC, 18DEC95
65	ARDEC_B	Aperture Card Format/Dialect Report for ARDEC, 18DEC95
66	ARDEC_WEAPONS	Aperture Card Format/Dialect Report for ARDEC, 18DEC95
67	PICATINNY	Aperture Card Format/Dialect Report for PICATINNY, 18DEC95
68	ARDEC_A	Aperture Card Format/Dialect Report for ARDEC, 18DEC95
69	CECOM_H/EXPANDED	Aperture Card Format/Dialect Report for CECOM, 27FEB96

* In addition to the source document, any enhancements made by means of the software change process are included.

This page is intentionally blank.

804C Scheme, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	B	AN	DOC_TYPE	See Note 1.
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See T24.
KIND_OF_ACCOMPANYING_ DOCUMENT	25	2	N	N	N	A	ACCOMPANYING_ KIND	See Note 1.
ACCOMPANYING_DOCUMENT_ NUMBER	27	7	N	L	B	AN	ACCOMPANYING_ NUMBER	See T24.
ACCOMPANYING_REVISION_ LETTER	34	1	N	N	N	AN	ACCOMPANYING_ REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
CARD_NUMBER	39	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS	43	4	N	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after scan.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
REVISED_IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	
SHEET_PAGE_NUMBER	78	3	Y	R	0	AN	SHEET_NUMBER	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T24 If SHEET_REV is 'Blank' and ACCOMPANYING_NUMBER is not 'Null', then SHEET_REV is '+'.
1. If ACCOMPANYING_KIND = 'NT', flag as Bad Hollerith (invalid DOC_TYPE). If DOC_TYPE not equal to '1N', then flag as Bad Hollerith.

Valid Values:
DWG_REV, SHEET_REV: Any alphanumeric; numeric revs are translated to alpha IAW MIL-STD-804C, Table 2 (or copy from T format).
ACCOMPANYING_REV: Any alphanumeric.
DOC_TYPE: Blank, AL, AW, CB, CC, CP, CS, DL, D7, EL, FL, GL, IL, KD, LD, MI, ML, MP, NC, NO, PB, PL, QA, QL, RD, RL, SD, SL, SS, TB, TD, TL, TP, TR, TS, UL, WB, WD, WH, WL, WT, 1L, 2L, 3L, 4L, 1N.
DIST_STMT: A, B, C, D, E, F, X, Blank.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
RIGHTS: U, L.
ACCOMPANYING_KIND: AD, AM, AN, AP, AR, AT, NT, SP, SU.
NEF (CARD_CODE): H
CTRL_CODE: Any alphanumeric.

804C Scheme, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	B	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	AN	SHEET_NUMBER	
REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	N	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	N	R	0	N	NUMBER_OF_FRAMES	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
REVISED_IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=AlphaNumeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions
(None)

Valid Values:
DOC_TYPE: Blank, AL, AW, CB, CC, CP, CS, DL, D7, EL, FL, GL, IL, KD, LD, MI, ML, MP, NC, NO, PB, PL, QA, QL, RD, RL, SD, SL, SS, TB, TD, TL, TP, TR, TS, UL, WB, WD, WH, WL, WT, 1L, 2L, 3L, 4L, 1N.
DWG_REV, SHEET_REV: Any alphanumeric: numeric revs converted to alpha IAW MIL-STD-804C, Table 2.
DIST_STMT: A, B, C, D, E, F, X, Blank.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
RIGHTS: U, L.
NEF (CARD_CODE): T
CTRL_CODE: Any alphanumeric.
CONVERSION LIST OF SHEET_REV_NUMBER TO SHEET_REV_LETTER: 1=A, 2=B, 3=C, 4=D, 5=E, 6=F, 7=G, 8=H, 9=J, 10=K, 11=L, 12=M, 13=N, 14=P, 15=R, 16=T, 17=U, 18=V, 19=W, 20=Y, 21=AA, 22=AB, 23=AC, 24=AD, 25=AE, 26=AF, 27=AG, 28=AH, 29=AJ, 30=AK, 31=AL, 32=AM, 33=AN, 34=AP, 35=AR, 36=AT, 37=AU, 38=AV, 39=AW, 40=AY, 41=BA, 42=BB, 43=BC, 44=BD, 45=BE, 46=BF, 47=BG, 48=BH, 49=BJ, 50=BK, 51=BL, 52=BM, 53=BN, 54=BP, 55=BR, 56=BT, 57=BU, 58=BV, 59=BW, 60=BY, 61=CA, 62=CB, 63=CC, 64=CD, 65=CE, 66=CF, 67=CG, 68=CH, 69=CJ, 70=CK, 71=CL, 72=CM, 73=CN, 74=CP, 75=CR, 76=CT, 77=CU, 78=CV, 79=CW, 80=CY, 81=DA, 82=DB, 83=DC, 84=DD, 85=DE, 86=DF, 87=DG, 88=DH, 89=DJ, 90=DK, 91=DL, 92=DM, 93=DN, 94=DP, 95=DR, 96=DT, 97=DU, 98=DV, 99=DW.

Dialect 7, 688 Class TVD

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
NAVSEA_DWG_NUM_TVD	3	10	N	L	B	A	NEF	
DRAWING_INDEX_NUMBER	13	4	N	L	B	N	NEF	
CODE_IDENTIFICATION_TVD	18	5	N	N	N	AN	CAGE	If CAGE is blank insert ‘43689’.
HULL_NUMBER_TVD	23	3	N	R	0	N	STHN	If populated, right justify and concatenate with 4 zeros to make it 7 long. If not populated, fill with 7 zeros.
DWG_REVISION_LETTER	26	2	N	R	B	AN	IGNORE	
TVD	28	3	N	N	N	A	NEF	
FRAME_NUM_SEQ_DESIGN	31	2	N	R	0	ANS	FRAME_NUMBER	
NUM_OF_FRAMES_SEQ_DESIGN	33	2	N	R	0	ANS	NUMBER_OF_FRAMES	
TVD_NUMBER	35	12	Y	L	B	ANS	DWG_NUM	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	N	N	N	A	DWG_SIZE	See Note 1.
CARD_CODE	51	1	N	Y	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	
DISTRIBUTION_STATEMENT	80	1	N	N	N	A	IGNORE	Removed by request of PNSY. Do not populate.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y = Yes, N = No) (YB = Yes Blank Value Allowed)
J—Field Justification (L = Left, R = Right, N = Not Justified)
F—Fill Character (B = Blank, N = Null, 0 = Zero)
T—Field Type (ANS = Alpha Numeric Special, AN = Alpha Numeric, N = Numeric, A = Alpha, S = Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If DWG_SIZE is ‘Blank’, set DWG_SIZE = ‘H’.

Valid Values:
DOC_TYPE: AJ, CF, CR, DD, DF, DL, DV, EA, EN, IR, LP, LR, RL, RN, RS, SI, WA, DR, VR, WC, WP, DA, DM, DN, HU, LI, RR.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DWG_SIZE: Any alpha.
CTRL_CODE: Any alphanumeric.
RIGHTS: U, L.
NEF (CARD_CODE): H, A, and T.

Dialect 19, H & T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	O	N	SHEET_NUMBER	
SHEET_REVISION_NUMBER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	O	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	Y	R	O	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	Y	R	O	N	NUMBER_OF_FRAMES	
SHIP_TYPE	35	4	N	L	B	N	STHN (POS 1–4)	See Note 1.
HULL_NUMBER	39	4	N	R	O	N	STHN (POS 5–9)	See Note 1.
DRAWING_INDEX_NUMBER	43	4	N	R	B	N	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 2.
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No, YB = Yes Blank Value Allowed)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If STHN (POS 1–4) = ‘TRI’, then STHN (POS 1–4) = ‘SSBN’ and STHN (POS 5–9) = ‘0726’. If STHN (POS 1–4) = ‘SSBN’ and STHN (POS 5–9) = ‘Blank’, then STHN (POS 5–9) = 0726.
2. ‘G’ is replaced by ‘U’. Only ‘U’ and ‘L’ are valid values.

Valid Values:
RIGHTS: U, L.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DWG_REV, SHEET_REV: Any alphanumeric.
NEF (CARD_CODE): H, A, T.
CTRL_CODE: Any alphanumeric.

Dialect 20

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
EB_TVD_TYPE	1	2	N	N	N	AN	DOC_TYPE	
NAVSEA_DWG_NUM_TVD	3	10	N	L	B	A	NEF	
DRAWING_INDEX_NUMBER	13	4	N	L	B	N	NEF	
CODE_IDENTIFICATION_TVD	18	5	N	N	N	AN	CAGE	If CAGE is ‘Blank’, insert ‘96169’.
HULL_NUMBER_TVD	23	3	N	R	B	N	STHN (POS 5–7)	Right justified and zero filled to 4 spaces.
DWG_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
TVD	28	3	N	N	N	A	NEF	
FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
TVD_NUMBER	35	12	Y	L	B	ANS	DWG_NUM	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	N	N	N	A	DWG_SIZE	If ‘Blank’, insert ‘H’.
CARD_CODE	51	1	Y	N	N	A	NEF	Only ‘H’, ‘A’, and ‘T’ are valid values. Not stored after input.
SEURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	Y	N	N	ANS	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
(None)

Valid Values:
DOC_TYPE: AI, CE, CF, CM, CR, CS, DA, DC, DE, DM, DR, DS, DV, EN, GF, IR, LI, LR, MR, NE, NP, NS, RL, RN, SA, TR, TS, TZ, VR, WA, WU.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
RIGHTS: U, L.
DWG_REV, SHEET_REV: Any alphanumeric.
CTRL_CODE: Any alphanumeric.
NEF (CARD_CODE): A, H, T.

Dialect 21, MIL-M-38761/1 (AS) Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	O	N	SHEET_NUMBER	If POS 25 = '*', then SHEET_NUM = ENG_CHANGE_SUPPLEMENTARY_ SHEET_NUM. See Note 1.
SHEET_REVISION_NUMBER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	O	N	NUMBER_OF_SHEETS	If POS 30 = '*' and POS 28 and 29 are 'Blank', then set NUMBER_OF_SHEETS=0000.
FRAME_NUMBER	31	2	Y	R	O	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	N	R	O	N	NUMBER_OF_FRAMES	
ENG_CHANGE_SUPPLEMENTARY_ SHEET_NUM	35	11	N	N	N	ANS	SHEET_NUMBER	If POS 39 = '*', then flag as bad sheet number.
DISTRIBUTION_STATEMENT	46	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Only 'T' is valid value.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If SHEET_NUMBER is longer than four characters, then the fifth character must be a decimal point ('.').

Valid Values:
DOC_TYPE: 1N, AD, AL, AM, AN, AR, AP, AT, AW, BM, CB, CC, CL, CP, CS, DL, EL, FL, GL, IL, KD, LC, LD, LM, MI, ML, MP, NC, NO, NT, PB, PD, PL, QA, QL, RD, RL, SD, SL, SP, SS, ST, SU, TB, TD, TL, TP, TR, TS, UL, VL, WB, WD, WH, WL, WT.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DWG_REV, SHEET_REV: Any alphanumeric.
RIGHTS: U, L.
NEF (CARD_CODE): T.
CTRL_CODE: Any alphanumeric.
DWG_SIZE: Any alpha.
DIST_STMT: Any alpha.

Dialect 24, NNSY NAVSEA Drawing

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	O	ANS	SHEET_NUMBER	
SHEET_REVISION_NUMBER	26	2	Y	R	B	ANS	DWG_REV, SHEET_REV	If REV = '-', then set REV = 'Blank'.
NUMBER_OF_SHEETS	28	3	N	R	O	N	NUMBER_OF_SHEETS	See Note 1.
FRAME_NUMBER	31	2	Y	R	O	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	Y	R	O	N	NUMBER_OF_FRAMES	
SHIP_TYPE	35	4	N	N	N	AN	STHN (POS 1–4)	
HULL_NUMBER	39	4	N	N	N	AN	STHN (POS 5–9)	
DRAWING_INDEX_NUMBER	43	4	N	N	N	N	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	
COMPUTER_OUTPUT	79	1	N	N	N	A	NEF	
DISTRIBUTION_STATEMENT	80	1	N	N	N	A	DIST_STMT	If DIST_STMT is bad, do not flag. Not stored after input.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If less than 3 characters and the first character is non-blank, then copy to SUB_SHEET and set NUMBER_OF_SHEETS = '0000'.

Valid Values:
RIGHTS: Any alpha.
CTRL_CODE: Any alphanumeric.
DIST_STMT: Any alpha.
NEF (CARD_CODE): T.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

Dialect 25, T, H & A Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
ENG_CHANGE_WEIGHT_GROUP	3	3	N	N	N	N	NEF	
POS_6_DASH	6	1	N	N	N	S	NEF	
NAVSEA_DWG_ENGINEERING_CHANGE	7	7	Y	N	N	N	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	O	ANS	SHEET_NUMBER	
ENG_DWG_REV_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	O	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	N	R	O	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	N	R	O	N	NUMBER_OF_FRAMES	
ENG_CHANGE_LHD	35	12	N	L	B	ANS	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	‘H’, ‘T’, and ‘A’ are valid values. Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
COMPUTER_OUTPUT	79	1	N	N	N	A	NEF	
DISTRIBUTION_STATEMENT	80	1	N	N	N	A	DIST_STMT	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. DOC_TYPE is set to ‘25’.

Valid Values:
DWG_REV, SHEET_REV: Any alphanumeric.
RIGHTS: Any alpha.
NEF (CARD_CODE): A, H, T.
CTRL_CODE: Any alphanumeric.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DIST_STMT: Any alpha.

Dialect 28, CG 47/DDG 51,DD 963/DDG 993 Class

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
DOC_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
OVERPUNCH_MICROFILM_INDEX_SHEET	23	3	Y	R	0	ANS	SHEET_NUMBER	See Note 1.
SHEET_REVISION_LETTER	26	2	Y	R	B	ANS	DWG_REV, SHEET_REV	
OVERP_NUM_OF_MICROF_IND_SHEETS	28	3	N	R	0	ANS	NUMBER_OF_SHEETS	See Note 1.
FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	N	R	0	N	NUMBER_OF_FRAMES	
SHIP_TYPE	35	4	N	L	B	AN	STHN—POS 1–4	
HULL_NUMBER	39	4	N	R	0	AN	STHN—POS 5–8	
DRAWING_INDEX_NUMBER	43	4	N	R	B	N	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	‘T’, ‘H’, and ‘A’ are valid values. Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If value is numeric, use as is. If length of value is 2 or 3 characters and non-numeric, evaluate as overpunch. If value is 'A' through 'I', evaluate as a 12 overpunch IAW MIL-STD-804B. If value is 'J' through 'R', evaluate as an 11 overpunch IAW MIL-STD-804B. If value is '<', evaluate as an 11 overpunch IAW MIL-STD-804B. If value is '%', evalute as a 12 overpunch IAW MIL-STD-804B.

Valid Values:
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
RIGHTS: U, L.
DWG_REV, SHEET_REV: Any alphanumeric.
CTRL_CODE: Any alphanumeric.
NEF (CARD_CODE): H, A, T.

Dialect 29, FFG 7 Class NEDSA Portsmouth, PHNSY

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
ALPHA_MICROFM_INDEX_SHEET	23	3	Y	R	0	AN	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
ALPHA_SEQ_OF_SHEET_NUM	28	3	N	R	B	A	SUB_SHEET	See Note 1.
FRAME_NUMBER	31	2	N	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	N	R	0	N	NUMBER_OF_FRAMES	
SHIP_TYPE	35	4	N	L	B	A	STHN (POS 1–4)	
HULL_NUMBER	39	4	N	R	0	N	STHN (POS 5–9)	
DRAWING_INDEX_NUMBER	43	4	N	R	B	N	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Only ‘H’, ‘T’, and ‘A’ are valid values. Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If the first character is not alphanumeric, ignore field. If the second and third characters are not empty, flag as Bad Hollerith (invalid SUB_SHEET).

Valid values:
DOC_TYPE: DL, EL, GL, IL, ML, PL, RL, WL, 1N.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
RIGHTS: U, L.
DWG_REV, SHEET_REV: I, O, Q, S, X, Z (not a complete listing).
NEF (CARD_CODE): H, A, T.
CTRL_CODE: Any alphanumeric.

Dialect 30, Marine Corps, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	Used but not verified.
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	ANS	CAGE	
SHEET_NUMBER	23	3	Y	R	O	N	SHEET_NUMBER	
SHEET_REVISION_NUMBER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	O	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	Y	R	O	N	FRAME_NUM	
NUMBER_OF_FRAMES	33	2	Y	R	O	N	NUMBER_OF_FRAMES	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	B	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	R	B	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	‘T’ is a valid value.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
(None)

Valid Values:
DWG_REV, SHEET_REV: Any alphanumeric.
RIGHTS: U, L, P, G.
NEF (CARD_CODE): T.
CTRL_CODE: Any alphanumeric.
DOC_TYPE: Any alphanumeric.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

Dialect 33, PHD NSWC W/O Eng Change NR, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	See Note 1.
POS_17_ASTERISK	17	1	N	N	N	S	DWG_NUM (POS 15)	
CODE_IDENTIFICATION	18	5	Y	N	N	ANS	CAGE	
SHEET_NUMBER	23	3	N	R	B	ANS	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	Y	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	‘T’ is a valid value. Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
FILM_TYPE_PHD	53	1	N	N	N	N	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Disposition:

1. If column 17 contains an '*', flag as Bad Hollerith (invalid DWG_NUM).

Valid Values:
DOC_TYPE: DL, EL, GL, IL, ML, PL, RL, WL, 1N, WS, QP, LM, CD, PR.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
RIGHTS: U, L, P.
DWG_REV, SHEET_REV: Any alphanumeric.
NEF (CARD_CODE): T.
CTRL_CODE: Any alphanumeric.
DIST_STMT: Any alpha.

Dialect 34, PHD NSWC W/Eng Change NR, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
CHANGE_NOTICE_IDENT	35	11	N	N	N	ANS	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 1.
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	‘T’ is a valid value. Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
FILM_TYPE_PHD	53	1	N	N	N	N	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=AlphaNumeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Disposition:
1. If 'Blank', flag as Bad Hollerith.

Valid Values:
DOC_TYPE: DL, EL, GL, IL, ML, PL, RL, WL, WS, QP, LM, CD, PR, 1N.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DWG_REV, SHEET_REV: Any alphanumeric.
RIGHTS: U, L, P.
NEF (CARD_CODE): T.
CTRL_CODE: Any alphanumeric.

Dialect 35, UNREP, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	See Note 1.
POS_17_ASTERISK	17	1	N	N	N	S	DWG_NUM—POS 15	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	‘T’ is a valid value. Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
FILM_TYPE_PHD	53	1	N	N	N	N	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If Column 17 is an '*', flag as Bad Hollerith (invalid DWG_NUMBER).

Valid Values:
DOC_TYPE: DL, EL, GL, IL, ML, PL, RL, WL, 1N, WS, QP, LM, CD, PR.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DWG_REV, SHEET_REV: Any alphanumeric.
RIGHTS: U, L, P.
CTRL_CODE: Any alphanumeric.
NEF (CARD_CODE): T.

Dialect 37, NTSC Orlando, T2 Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUM	See Note 1.
SHEET_REVISION_NUMBER	26	2	N	R	B	ANS	SHEET_REV	See Notes 1 and 2.
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 4.
CONTROL_ACTIVITY	48	2	Y	L	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	See Note 5.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
CARD_CODE	79	2	N	N	N	AN	CARD_CODE_T2	See Note 3.
	51	1	Y	N	N	A	CARD_CODE	If CARD_CODE is ‘blank’ and CARD_CODE_T2 = T2, then set CARD_CODE to ‘T’.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=AlphaNumeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If columns 23–25 are not 'Blank', then SHEET_NUM is equal to columns 23–25 and SHEET_REV is equal to columns 26–27. Else, if columns 32–34 are not 'Blank', then SHEET_NUM is equal to columns 32–34 and SHEET_REV is equal to columns 35–36. Else, if columns 37–39 are not 'Blank', then SHEET_NUM is equal to columns 37–39 and sheet revision is equal to columns 40–41. Else, if columns 42–44 are not 'Blank', then SHEET_NUM is equal to columns 42–44 and SHEET_REV is equal to columns 45–46.
2. If SHEET_REV is not 'Null' and SHEET_NUM is equal to 1 (i.e. 0001), then set DWG_REV equal to SHEET_REV.
3. Card Code is not stored in pending, but the dialect parser interprets a card code equal to 'Blank' as 'T' regardless of the Card Code T2 field. The Card Code T2 field is no longer being validated.
4. If 'Blank', flag as Bad Hollerith.
5. If DWG_SIZE = 'A', then set to 'E' and populate size to 'E'. If DWG_SIZE = 'B', then set to 'E' and populate size to 'E'. If DWG_SIZE = 'Blank', then set to 'E' and populate size to 'E'.

Valid Values:
DOC_TYPE: DL, EL, GL, IL, ML, PL, RL, WL, 1N.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
SHEET_REV: I, O, Q, S, X, Z
RIGHTS: U, L.
DWG_SIZE: A, B, E, Blank.

Dialect 39, NTSC Orlando, B Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUM	
SHEET_REVISION_NUMBER	26	2	N	R	B	ANS	SHEET_REV	See Note 1.
NUMBER_OF_SHEETS	43	3	N	R	0	N	NUMBER_OF_SHEETS	
RIGHTS	46	1	Y	N	N	A	RIGHTS	See Note 2.
CONTROL_ACTIVITY	48	2	Y	L	N	AN	CTRL_CODE	
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	See Note 3.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
CARD_CODE	51	1	Y	N	N	A	CARD_TYPE	See Note 4.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If SHEET_REV is not 'Null' and SHEET_NUM is equal to 1 (i.e. 0001), then set DWG_REV equal to SHEET_REV.
2. If 'Blank', flag as Bad Hollerith.
3. If DWG_SIZE is equal to 'A' or 'Blank', then the DWG_SIZE will be set to 'E' and saved to pending.
4. If Card Type = 'B' or 'Blank', then set CARD_TYPE = 'T'.

Valid Values:
DOC_TYPE: DL, EL, GL, IL, ML, PL, RL, WL, 1N.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
SHEET_REV: I, O, Q, S, X, Z.
RIGHTS: U, L.
CARD_TYPE: B, T, Blank.
DRAWING_SIZE: A, E, Blank.

Dialect 42, AMCOM, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER_MICOM	23	3	Y	R	0	N	SHEET_NUMBER	See Notes 1 and 3.
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	See Notes 1 and 3.
WPN_SYS_CODE	33	2	Y	L	N/0	AN	MAJOR_REPOSITORY_CODE	See T19.
DISTRIBUTION_STATEMENT	35	1	Y	N	N	A	DIST_STMT	
CARD_NUMBER_MICOM	40	3	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_MICOM	44	3	N	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	See Note 3.
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T19 Right justify the contents of the MAJOR_REPOSITORY_CODE field. If input value is alpha, pad with null. If value is numeric, pad with zero.
1. If SHEET_NUMBER = '0001', then NUMBER_OF_SHEETS is required.
3. If DWG_SIZE = 'G', 'J', 'K', 'I', or 'H', then (1) SHEET_NUMBER = 0001, and (2) NUMBER_OF_SHEETS = 0001.

Valid Values:
DOC_TYPE: Blank, AD, AM, AN, AP, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, HD, GL, ID, IL, IM, LC, LD, LE, LM, LP, LS, ME, MD, ML, MS, NC, NR, NT, OD, OI, OS, PC, PD, PE, PK, PL, PR, PS, RL, QF, QL, QP, QR, QS, SA, SB, SC, SD, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, WD, WL, WS, WT, XX, 4R, 4.
CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
MAJOR_REPOSITORY_CODE: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 99, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DJ, DN, DP, DX, DY, D9, EA, EB, EC, E4, E6, E9, ET, EX, EZ, HU, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, ME, ND, PI, SL, SR, SX, TG, XX, ZZ.
DWG_REV, SHEET_REV: Any alphanumeric, blank.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DIST_STMT: A, B, C, D, E, F, X.
RIGHTS: U, L.
NEF (CARD_CODE): T.

Dialect 44, WR-ALC, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	See T26.
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	See T23, T25, and Note 1.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	See T25 and T26.
SHEET_REVISION_LETTER	23	2	N	R	B	AS	DWG_REV, SHEET_REV	See T24 and Note 10.
ACCOMPANYING_DOC_TYPE	25	2	N	N	N	ANS	ACCOMPANYING_KIND	See T34 and Note 14.
ACCOMPANYING_DOCUMENT_ NUM	27	7	N	L	B	ANS	ACCOMPANYING_NUM	See T24, T34, and Notes 2 and 14.
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	AS	ACCOMPANYING_REV	See Note 10.
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	See T31.
CARD_NUMBER_AF	39	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_AF	43	4	Y	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See T31.
CONTROL_ACTIVITY_WR_ALC	48	2	Y	N	N	A	CTRL_CODE	See Note 13.
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	See Note 3.
REVISED_IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	
SHEET_PAGE_NUMBER_AF	78	3	Y	R	0	ANS	SHEET_NUMBER	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T23 If DWG_NUM contains (‘/’, ‘and’, or ‘thru’), then DWG_NUM = all characters up to but not including the (‘/’, ‘and’ or ‘thru’).
T24 If SHEET_REV is ‘Blank’ and ACCOMPANYING_NUM is not ‘null’, then SHEET_REV is ‘+’.
T25 If DWG_NUM has greater than or equal to two dashes (‘--’) and CAGE is (13499 or 95105), then truncate DWG_NUM from second dash onward.
T26 If CAGE = 76301, 13499, or 95105 and DOC_TYPE field contains SP, ST, or CP, blank out DOC_TYPE.
T31 If column 35 is ‘Blank’ and there is a ‘U’ in column 47 (RIGHTS), change value of column 35 to ‘D’. If value of column 47 is other than ‘U’, then flag for QA manual processing.
T34 If ACCOMPANYING_KIND field contains any value other than ‘Blank’ and ACCOMPANYING_NUM field is ‘Blank’, flag for Bad Hollerith. Also, if ACCOMPANYING_NUM field contains any value other than ‘Blank’ and ACCOMPANYING_KIND field is ‘Blank’, flag as Bad Hollerith.
1. If column 17 is an (*, /, or -), then flag as Bad Hollerith (the DWG_NUM is incomplete).
2. If column 33 = (*), then flag as Bad Hollerith (the ACCOMPANYING_NUM is incomplete).
3. If SECURITY_LEVEL = ‘U’, then set SECURITY_LEVEL = ‘N’.
10. Flag SHEET_REV and ACCOMPANYING_REV as Bad Hollerith if numeric or alphanumeric combination.
13. Accept all alpha values in the control activity code (CTRL_CODE) field. Flag any drawing that has numerics, special characters, or blanks, in the control activity code, as Bad Hollerith.
14. If ACCOMPANYING_NUM field contains any value other than ‘Blank’ and ACCOMPANYING_KIND field is ‘Blank’, flag as Bad Hollerith.

Valid Values:
DWG_REV, SHEET_REV: Blank, +, any alpha with exception of I, O, Q, S, X, and Z, which are not valid.
DIST_STMT: Blank, A, B, C, D, E, F, X.
SECURITY_LEVEL = N, U.
RIGHTS: L, U.
ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, EX, MT, NT, SP, SU, VR, only when microfilmed, otherwise leave blank. If ‘NT’ is in columns 25 – 26 and the 1N fills columns 1 – 2, this is the only condition when 1N is to be used.
DOC_TYPE: 1L, 1N, 2L, 3L, 4L, AL, AW, BM, CB, CC, CL, CP, CS, DL, D7, EL, FL, GL, IL, KD, LD, LM, MD, MI, ML, MP, NC, PB, PD, PL, QA, QL, RD, RL, SC, SD, SL, SP, SS, ST, TB, TD, TL, TP, TR, TS, UL, WB, WD, WH, WL, WT, Blank.
CTRL_CODE: All alpha values.
NEF (CARD_CODE): H.

Dialect 45, WR-ALC, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER	3	15	N	L	B	ANS	DWG_NUM	See Note 1.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUMBER	See Note 2.
SHEET_REVISION_LETTER	26	2	N	R	B	AS	DWG_REV, SHEET_REV	See T24 and Note 5.
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	N	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	N	R	0	N	NUMBER_OF_FRAMES	
SHEET_NUMBER_EXPANDED	35	12	N	L	B	ANS	SHEET_NUMBER	See Note 2.
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 4.
CONTROL_ACTIVITY_WR_ALC	48	2	Y	N	N	A	CTRL_CODE	See Note 8.
DRAWING_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	See Note 3.
REVISED_IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T24 If SHEET_REV is 'Blank' and ACCOMPANYING_NUM is not 'Null', then SHEET_REV is '+'.
1. If column 17 is an ('*', '/', or '-'), then flag as Bad Hollerith (the DWG_NUM is incomplete).
2. If column 25 is an '*', then set SHEET_NUMBER = SHEET_NUMBER (i.e., SHEET_NUMBER_EXPANDED), else set SHEET_NUMBER = SHEET_NUMBER.
3. If SECURITY_LEVEL = 'U', then set SECURITY_LEVEL = 'N'. Only 'U' and 'N' are valid values. Flag all other as Bad Hollerith.
4. If RIGHTS are not = to 'U' or 'L', flag as Bad Hollerith. If 'Blank', flag as Bad Hollerith.
5. Flag SHEET_REV as Bad Hollerith if numeric or alphanumeric.
8. Accept all alpha values in the CTRL_CODE field. Flag any drawing that has numerics, special characters, or blanks in the control activity code as Bad Hollerith.

Valid Values:
DOC_TYPE: Blank, 1L, 1N, 2L, 3L, 4L, AL, AW, CB, CC, CP, CS, DL, D7, EL, FL, GL, IL, KD, LD, MI, ML, MP, NC, NO, PB, PD, PL, QA, QL, RD, RL, SD, SL, SP, SS, ST, TB, TD, TL, TP, TR, TS, UL, WB, WD, WH, WL, WT.
DWG_REV, SHEET_REV: Any alpha with exception of I, O, Q, S, X, and Z.
CTRL_CODE: All alpha values.
SECURITY_LEVEL: N, U.
RIGHTS: U, L.
NEF (CARD_CODE): T.

Dialect 46, OC-ALC, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	See T27.
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	See T23 and Note 1.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See T24.
ACCOMPANYING_DOC_TYPE	25	2	N	N	N	ANS	ACCOMPANYING_KIND	See T28, T29, and T34.
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	B	ANS	ACCOMPANYING_NUM	See T24, T28, T29, T34 and Note 2.
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	See T31.
CARD_NUMBER_AF	39	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_AF	43	4	N	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See T31.
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	See Note 10.
SCANNING_POSITION_CODE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	See Note 12.
REVISED_IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	
SHEET_PAGE_NUMBER_AF	78	3	Y	R	0	ANS	SHEET_NUMBER	See T28, T29, T30 and Note 9.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T23 If DWG_NUM contains (‘/’, ‘and’, or ‘thru’), then DWG_NUM = all characters up to but not including the (‘/’, ‘and’, or ‘thru’).
T24 If SHEET_REV is ‘Blank’ and ACCOMPANYING_NUM is not ‘Null’, then SHEET_REV is ‘+’.
T27 If DOC_TYPE = ‘SP’ or ‘ST’, then change to ‘CP’.
T28 If ACCOMPANYING_KIND = ‘AD’ and ACCOMPANYING_NUM = (1000, 2000, or 3000), then SHEET_NUMBER + ACCOMPANYING_NUM = SHEET_NUMBER.
T29 If ACCOMPANYING_KIND = ‘AD’ and a (.) is in columns 28–33, then columns 27–33 = SHEET_NUMBER (ignore value in columns 78–80). If SHEET_NUMBER is taken from the ACCOMPANYING_DOCUMENT_NUMBER field, zero pad the SHEET_NUMBER four characters to the left of the decimal point.
T30 If there is an ‘*’ in columns 78–80, flag as Bad Hollerith (invalid SHEET_NUMBER).
T31 If DIST_STMT = ‘Blank’ and RIGHTS = ‘U’, then set DIST_STMT = ‘D’. If DIST_STMT = ‘Blank’ and RIGHTS is not = ‘U’, then flag as Bad Hollerith (invalid RIGHTS).
T34 If ACCOMPANYING_KIND field contains any value other than ‘Blank’ and ACCOMPANYING_NUM field is ‘Blank’, flag as Bad Hollerith. Also, if ACCOMPANYING_NUM field contains any value other than ‘Blank’ and ACCOMPANYING_KIND field is ‘Blank’, flag as Bad Hollerith.
1. If column 17 = (*), flag as Bad Hollerith (DWG_NUM is incomplete).
2. If column 33 = (*), flag as Bad Hollerith (ACCOMPANYING_NUM is incomplete).
9. Flag any drawing with an ‘*’ in columns 78–80 as Bad Hollerith (invalid SHEET_NUMBER).
10. If CTRL_CODE is ‘SB’, then set CTRL_CODE = ‘MF’.
12. If SECURITY_LEVEL = ‘U’, then set SECURITY_LEVEL = ‘N’. Only ‘U’ and ‘N’ are valid values. Flag all others as Bad Hollerith.

Valid Values:
DWG_REV, SHEET_REV: Blank, +, any alphanumeric except I, O, Q, S, X, and Z.
DOC_TYPE: 1L, 1N, 2L, 3L, 4L, 4R, 4T, AD, AL, AM, AN, AP, AT, AW, BM, CB, CC, CD, CE, CF, CL, CM, CP, CS, DA, DB, DC, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D7, D9, EC, ED, EL, EM, EO, EP, ER, ET, FD, FL, FN, GL, HD, IL, IM, KD, LC, LD, LE, LM, LP, LS, MD, ME, MI, ML, MP, MS, NC, NT, OI, PB, PD, PE, PK, PL, PM, PR, PS, QA, QF, QL, QP, QR, QS, RD, RL, SA, SB, SC, SD, SI, SJ, SL, SM, SP, SQ, SS, ST, SW, TB, TD, TL, TM, TO, TP, TR, TS, UL, WB, WD, WH, WL, WT, XX.
DIST_STMT: Blank, A, B, C, D, E, F, X.
ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, BK, EX, MT, NT, PT, SP, ST, SU, VR.
SECURITY_LEVEL: N, U.
RIGHTS: U, L.
CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
NEF (CARD_CODE): H.

Dialect 47, OC-ALC, Boeing, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	See T27 and T33.
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	See T23 and Note 6.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	See T33.
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See T24.
ACCOMPANYING_DOC_TYPE	25	2	N	N	N	ANS	ACCOMPANYING_KIND	See T28, T29, T33, T34, T35 and Notes 1 and 2.
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	B	ANS	ACCOMPANYING_NUM	See T24, T28, T29, T32, T34, T35 and Notes 1, 2, and 5.
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	See T31.
CARD_NUMBER_AF	39	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_AF	43	4	N	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See T31.
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	See Note 3.
SCANNING_POSITION_CODE	50	1	N	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	See Note 4.
REVISED_IMAGE_PLANE	53	1	N	N	N	N	NEF	
REJECTED_CAMERA_MICROFILM	77	1	N	N	N	ANS	NEF	
SHEET_PAGE_NUMBER_AF	78	3	Y	R	0	ANS	SHEET_NUMBER	See T28, T29, T30, T32, and Note 7.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:

T23 If DWG_NUM contains (‘/’, ‘and’, or ‘thru’), then DWG_NUM = all characters up to but not including the (‘/’, ‘and’ or ‘thru’).

T24 If SHEET_REV is ‘Blank’ and ACCOMPANYING_NUM is not ‘Null’, then SHEET_REV is ‘+’.

T27 If DOC_TYPE = ‘SP’ or ‘ST’, change to ‘CP’.

T28 If ACCOMPANYING_KIND = ‘AD’ and ACCOMPANYING_NUM = (1000, 2000, or 3000), then SHEET_NUMBER + ACCOMPANYING_NUM = SHEET_NUMBER.

T29 If ACCOMPANYING_KIND = ‘AD’ and a (.) is in columns 28–33, then columns 27–33 = SHEET_NUMBER (Ignore value in SHEET_NUMBER). If SHEET_NUMBER is taken from the ACCOMPANYING_DOCUMENT_NUMBER field, zero pad the SHEET_NUMBER four characters to the left of the decimal place.

T30 If there is an ‘*’ in columns 78–80, flag as Bad Hollerith (invalid SHEET_NUMBER).

T31 If column 35 is ‘Blank’ and there is a ‘U’ in column 47 (RIGHTS), change value of column 35 to ‘D’. If value of column 47 is other than ‘U’, flag for QA manual processing.

T32 If a decimal is in column 27, add value of column 78–80 to the values of columns 27–33 and return as SHEET_NUMBER.

T33 If CAGE = 81205 or 82918 and DOC_TYPE or ACCOMPANYING_KIND = ‘1N’, then flag as Bad Hollerith (as DOC_TYPE is incorrect).

T34 If ACCOMPANYING_KIND field contains any value other than ‘Blank’ and ACCOMPANYING_NUM field is ‘Blank’, flag as Bad Hollerith. Also, if ACCOMPANYING_NUM field contains any value other than ‘Blank’ and ACCOMPANYING_KIND field is ‘Blank’, flag as Bad Hollerith.

T35 If ACCOMPANYING_KIND = ‘AD’ and ACCOMPANYING_NUM = ‘CN’, change ACCOMPANYING_KIND to ‘NT’ and then flag as Bad Hollerith (invalid ACCOMPANYING_KIND).

1. If ACCOMPANYING_KIND = ‘VR’, remove value from ACCOMPANYING_KIND and any value in ACCOMPANYING_NUM.
2. If ACCOMPANYING_KIND = ‘BO’, then remove it and remove ‘EING’ from ACCOMPANYING_NUM (i.e., remove BOEING from the two fields).
3. If CTRL_CODE = ‘SB’, then set CTRL_CODE = ‘MF’.
4. If SECURITY_LEVEL = ‘U’, then set SECURITY_LEVEL = ‘N’. Only ‘U’ and ‘N’ are valid values. Flag all others as Bad Hollerith.
5. If column 33 = (*), flag as Bad Hollerith (ACCOMPANYING_NUM is incomplete).
6. If column 17 = (*), flag as Bad Hollerith (DWG_NUM is incomplete).
7. If there is a decimal point in one of the first four positions of SHEET_NUMBER, pad with zeros to place the decimal point in position five. Decimal point is not a valid value except in the first five positions of SHEET_NUMBER.

Valid Values:

DWG_REV, SHEET_REV: Blank.

DOC_TYPE: 1L, 1N, 2L, 3L, 4L, 4R, 4T, AD, AL, AM, AN, AP, AT, AW, BM, CB, CC, CD, CE, CF, CL, CM, CP, CS, DA, DB, DC, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D7, D9, EC, ED, EL, EM, EO, EP, ER, ET, FD, FL, FN, GL, HD, IL, IM, KD, LC, LD, LE, LM, LP, LS, MD, ME, MI, ML, MP, MS, NC, NT, OI, PB, PD, PE, PK, PL, PM, PR, PS, QA, QF, QL, QP, QR, QS, RD, RL, SA, SB, SC, SD, SI, SJ, SL, SM, SP, SQ, SS, ST, SW, TB, TD, TL, TM, TO, TP, TR, TS, UL, WB, WD, WH, WL, WT, XX.

DIST_STMT: Blank, A, B, C, D, E, F, X.

SECURITY_LEVEL: N, U

RIGHTS: U, L.

CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.

ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, BO, BK, EX, MT, NT, PT, SP, ST, SU, VR.

NEF (CARD_CODE): H.

This page is intentionally blank.

Dialect 48, RIA, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	See Notes 2 and 5.
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	N	R	0	ANS	SHEET_NUMBER	See Note 1.
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Notes 4 and 5.
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	See Note 1.
CARD_FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	See Note 3.
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 6.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, A=Alpha, N=Numeric, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If SHEET_NUM = 001, then NUMBER_OF_SHEETS must be >0, not = to 'Blank', and valid.
2. Add 'MA' as a valid code for DOC_TYPE.
3. If a numeric appears in column 35, store as 'Blank' and do not flag as Bad Hollerith.
4. 'I', 'O', 'Q', 'S', 'X', and 'Z' are valid values to support data converted through Digital Migration.
5. 'Blank' is valid value for DOC_TYPE and SHEET_REV; therefore, this field is not required for fill.
6. If 'Blank', flag as Bad Hollerith.

Valid Values:
DWG_REV, SHEET_REV: Blank, any alphanumeric.
DOC_TYPE: Blank, 1N, 4R, 4T, AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MA, MD, ME, MI, ML, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QR, QS, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DIST_STMT: A, B, C, D, E, F, X.
CTRL_CODE: Any alphanumeric.
RIGHTS: U, L.
NEF (CARD_CODE): T.

Dialect 49, RIA, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	See Note 2.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See T24.
KIND_OF_ACCOMPANYING_DOCUMENT	25	2	N	N	N	ANS	ACCOMPANYING_KIND	
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	B	ANS	ACCOMPANYING_NUM	See T24.
DATE	31	6	N	N	N	N	DWG_REV_DATE	See T36.
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	See Note 5.
CARD_NUMBER	39	4	Y	R	0	N	FRAME_NUMBER	See Notes 3 and 4.
NUMBER_OF_CARDS	43	4	N	R	0	N	NUMBER_OF_FRAMES	See Notes 3 and 4.
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	N	N	N	A	DWG_SIZE	See Notes 3 and 4.
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions

T24 If SHEET_REV is 'Blank' and ACCOMPANYING_NUM is not 'Null', then SHEET_REV is '+'.

T36 If DATE field contains a value (6 digits), remove the value of the DATE field and leave the field 'Blank'.

2. If column 17 contains a "*", flag as Bad Hollerith (invalid DWG_NUM).
3. If DWG_SIZE = 'A', 'B', 'C', 'D', 'E', or 'F', then CARD_NUMBER = SHEET_NUMBER and NUMBER_OF_CARDS = NUMBER_OF_SHEETS. Set FRAME_NUMBER and NUMBER_OF_FRAMES = 0001.
4. If DWG_SIZE = 'G', 'J', 'K', or 'H', then CARD_NUMBER = FRAME_NUMBER and NUMBER_OF_CARDS = NUMBER_OF_FRAMES. Set SHEET_NUMBER and NUMBER_OF_SHEETS = 0001.
5. If a numeric appeared in column 35, store as 'Blank' and do not flag as Bad Hollerith.

Valid Values:
ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, EX, IN, LE, MP, MT, NT, PD, SP, SQ, SU, VR.
SECURITY_LEVEL = N, C, M, S, T, E, F, G, H, J, K.
DWG_REV, SHEET_REV: Any alphanumeric.
ACCOMPANYING_REV: Any alphanumeric.
DIST_STMT: A, B, C, D, E, F, X.
DOC_TYPE: 1N, 4R, 4T, AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DE, DF, DL, DM, DP, DR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MD, ME, MI, ML, MQ, MS, NC, NO,NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QR, QS, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX.
RIGHTS: U, L.
NEF (CARD_CODE): H (not stored after input).

Dialect 50, RIA WEAPONS, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	See Note 1.
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
DATE	31	6	N	N	N	N	NEF	
CARD_NUMBER	39	4	N	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS	43	4	N	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions
1. If DOC_TYPE = ‘1A’ or ‘2A’, then change DOC_TYPE to ‘Blank-Blank’.

Valid Values:
DWG_REV, SHEET_REV: Any alphanumeric.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DOC_TYPE: 1N, 4R, 4T, AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MD, ME, MI, ML, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QS, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX.
CTRL_CODE: Any alphanumeric.
RIGHTS: U, L.
NEF (CARD_CODE): T.

Dialect 51, NADEP JAX, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	B	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
AIRCRAFT_SYS_CODE	35	10	N	L	B	ANS	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
(None)

Valid Values:
DOC_TYPE: 1L, 1N, 2L, 3L, 4L, AL, AW, BM, CB, CC, CL, CP, D7, DL, EL, EO, FL, GF, GL, IL, IN, KD, LC, LD, LM, MI, ML, MP, NC, NO, PB, PD, PL, QA, QL, RD, RL, SD, SL, SP, SS, ST, TB, TD, TL, TP, TR, TS, UL, VL, WB, WD, WH, WL, WT.
DWG_REV, SHEET_REV: Any alphanumeric.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
RIGHTS: U, L.
NEF (CARD_CODE): T.

Dialect 52, NADEP JAX, Lockheed P3, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	See T38.
DOCUMENT_NUMBER	3	15	Y	L	N	ANS	DWG_NUM	See T15 and Note 1.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUMBER	See Note 2.
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	Y	R	0	N	NUMBER_OF_SHEETS	See Note 3.
FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	N	R	0	N	NUMBER_OF_FRAMES	
ENGINEERING_CHANGE_SUPPLEMENTARY_SHEET_NUMBER	35	11	N	N	N	ANS	NEF	See Note 2. Not stored after input.
DISTRIBUTION_STATEMENT	46	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See T38.
CONTROL_ACTIVITY	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	See T38.
CARD_CODE	51	1	Y	N	N	A	NEF	Not stored after input.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special Character, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T15 Identifies document number that contains a '/' as a THRU_DOCUMENT_NUMBER. Set DWG_NUM equal to the characters up to but not including the '/'.
T38 If column 1 = 'U' or 'L' and column 2 = 'A', 'B', 'C', 'D', 'E', 'J', or 'H' and columns 47 and 50 are 'blank', the data in columns 1 and 2 is not related to a type of document code and needs to be repositioned. Return data in column 1 to column 47 for RIGHTS, return data in column 2 to column 50 for DWG_SIZE, and return DOC_TYPE as blank in columns 1 and 2.
1. If column 17 equals * = (*), set flag as Bad Hollerith (DWG_NUM is incomplete).
2. If column 25 equals * = (*), then record ENGINEERING_CHANGE_SUPPLEMENTARY_SHEET_NUMBER in place of SHEET_NUMBER.
3. If column 30 equals *v = (*), then set flag as Bad Hollerith (SHEET_NUM is incomplete).

Valid Values:
DWG_REV, SHEET_REV: Any alphanumeric.
DOC_TYPE: 1L, 1N, 2L, 3L, 4L, AL, AW, CB, CC, CL, CP, CS, DL, D7, EL, FL, GL, IL, KD, LC, LD, MI, ML, MP, NC, NO, PB, PD, PL, QA, QL, RD, RL, SD, SL, SP, SS, ST, TB, TD, TL, TP, TR, TS, UL, VL, WB, WD, WH, WL, WT.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DIST_STMT: A, B, C, D, E, F, X, blank.
RIGHTS: U, L.
CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
NEF (CARD_CODE): T.

Dialect 53, CECOM, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	N	ANS	DWG_NUM	See T39.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Note 1.
ACCOMPANYING_DOCUMENT_KIND	25	2	N	N	N	ANS	ACCOMPANYING_KIND	
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	N	ANS	ACCOMPANYING_NUM	See Note 2.
ACCOMPANYING_DOCUMENT_REVISION	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
CARD_NUMBER	39	4	Y	R	0	N	SHEET_NUMBER	
NUMBER_OF_CARDS	43	4	Y	R	0	N	NUMBER_OF_SHEETS	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 6.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	See Note 3.
DRAWING_SIZE_DOCUMENT	50	1	N	N	N	A	DWG_SIZE	See T39 and Note 5.
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	See Note 4.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T39 If DOC_NUM field contains the character string 'SM-alpha-' or 'SC-alpha-' in columns 3–7 (alpha is one character) and column 50 (DWG_SIZE) is blank, then return the alpha character in column 6 as DWG_SIZE (in column 50) when alpha character is 'A', 'B', 'C', 'D', 'E', 'F', 'H', 'J', or 'K'. The DOC_NUM character string does not change, i.e., alpha character remains in column 6.

1. If SHEET_REV = '-' (dash), then set SHEET_REV to 'Blank'.
2. If column 33 = '*', then flag as Bad Hollerith (the ACCOMPANYING_KIND is incomplete).
3. Change CTRL_CODE from 'CU' to 'DU'. (CU is Vint Hill Farm Station Virginia Activity Code. Vint Hill is now a part of CECOM).
4. Change SECURITY_LEVEL from 'U' to 'N'.
5. At the HSACS, if the field DWG_SIZE is blank on the aperture card and translator T39 does not apply, set DWG_SIZE to the value set in the HSACS Scan Parameters screen H-Type field.
6. Change RIGHTS from 'G' to 'U'. Change RIGHTS from 'P' to 'L'.
7. FRAME_NUMBER is set to '0001', NUMBER_OF_FRAMES is not set.

Valid Values:
DOC_TYPE: AD, AL, AM, AN, AP, AW, BM, CB, CC, CD, CE, CF, CL, CM, CP, CR, CS, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D7, D8, D9, EC, ED, EL, EM, EO, EP, ER, ET, FD, FL, FN, GL, HD, ID, IL, IM, KD, LC, LD, LE, LM, LP, LS, MD, ME, MI, ML, MP, MS, NC, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PP, PR, PS, QA, QF, QL, QP, QR, QS, RD, RL, SA, SB, SC, SD, SE, SL, SM, SP, SQ, SS, ST, SU, TB, TD, TL, TM, TO, TP, TR, TS, UL, WB, WD, WH, WL, WS, WT, XX, 1N, 4R, 4T, 1L, 2L, 3L, 4L.
ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, EX, MT, NT, SP, SU.
CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
RIGHTS: U, L, G, P.
NEF (CARD_CODE): H.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DIST_STMT: A, B, C, D, E, F, X.
DWG_REV, SHEET_REV: Blank, any alphanumeric.
ACCOMPANYING_REV: Any alphanumeric.

Dialect 54, CECOM, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	N	ANS	DWG_NUM	See T39.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_NUMBER	23	3	Y	R	0	ANS	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Note 3.
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	See Note 1.
CARD_FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 6.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	See Note 2.
DRAWING_SIZE_DOCUMENT	50	1	N	N	N	A	DWG_SIZE	See T39 and Note 5.
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	See Note 4.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:

T39 If DOCUMENT_NUMBER field contains the character string ‘SM-alpha-’ or ‘SC-alpha-’ in columns 3–7 (alpha is one character) and column 50 (DWG_SIZE) is blank, then return the alpha character in column 6 as DWG_SIZE (in column 50) when alpha character is ‘A’, ‘B’, ‘C’, ‘D’, ‘E’, ‘F’, ‘H’, ‘J’, or ‘K’. The DWG_NUM character string does not change, i.e., alpha character remains in column 6.

1. If SHEET_NUMBER is equal to 1, then NUMBER_OF_SHEETS is required to be populated. If SHEET_NUMBER is not equal to 1, then NUMBER_OF_SHEETS is an optional field.
2. Change CONTROL_CODE from CU to DU. (CU is Vint Hill Farm Station Virginia Activity Code. Vint Hill is now a part of CECOM).
3. If SHEET_REV = ‘-’ (dash), then set SHEET_REV to ‘Blank’.
4. Change SECURITY_LEVEL from ‘U’ to ‘N’.
5. At the HSACS, if the field DWG_SIZE is ‘Blank’ on the aperture card and translator T39 does not apply, set DWG_SIZE to the value set in the HSACS Scan Parameters screen H-Type field.
6. Change RIGHTS from ‘G’ to ‘U’. Change RIGHTS from ‘P’ to ‘L’.

Valid Values:

DOC_TYPE: AD, AL, AM, AN, AP, AW, BM, CB, CC, CD, CE, CF, CL, CM, CP, CR, CS, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D7, D8, D9, EC, ED, EL, EM, EO, EP, ER, ET, FD, FL, FN, GL, HD, ID, IL, IM, KD, LC, LD, LE, LM, LP, LS, MD, ME, MI, ML, MP, MS, NC, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PP, PR, PS, QA, QF, QL, QP, QR, QS, RD, RL, SA, SB, SC, SD, SE, SL, SM, SP, SQ, SS, ST, SU, TB, TD, TL, TM, TO, TP, TR, TS, UL, WB, WD, WH, WL, WS, WT, XX, 1L, 2L, 3L, 4L, 1N, 4R, 4T.

CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.

DIST_STMT: A, B, C, D, E, F, X.

NEF (CARD_CODE): T.

RIGHTS: U, L, G, P.

DWG_REV, SHEET_REV: Blank, any alphanumeric.

SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

Dialect 55, SM-ALC, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	N	ANS	DWG_NUM	See T40, T42 and Note 1.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	A	DWG_REV, SHEET_REV	See T24.
KIND_OF_ACCOMPANYING_DOCUMENT	25	2	N	N	N	AN	ACCCOMPANYING_KIND	See T34.
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	N	ANS	ACCOMPANYING_NUM	See T34 and Note 2.
ACCOMPANYING_REVISION_LETTER	34	2	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	36	1	N	N	N	A	DIST_STMT	See T31.
CARD_NUMBER_AF	39	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_AF	43	4	Y	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See T31.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	See T41.
SCANNING_POSITION_CODE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	N	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
IMAGE_PLANE	53	1	N	N	N	N	NEF	
SHEET_PAGE_NUMBER_AF	78	3	Y	R	0	N	SHEET_NUMBER	

Key:

FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:

T24 Identifies SHEET_REV input data that contains a number or special character. If a number, convert in accordance with MIL-STD-804C Appendix A Table II and return results as SHEET_REV. If a special character or a combination of alpha and number, flag for QA operator manual processing (i.e., Bad Hollerith).

T31 If column 35 is blank and there is a 'U' in column 47 (RIGHTS), change value of column 35 to 'D'. If value of column 47 is other than 'U', flag for QA manual processing (i.e., Bad Hollerith).

T34 If either ACCOMPANYING_KIND or ACCOMPANYING_NUM field contains a value, but the other field is 'Blank', then flag as Bad Hollerith (ACCOMPANYING_NUM is 'Blank' or ACCOMPANYING_KIND is 'Blank').

T40 If the content of column 1 is identical to column 3 and the content of column 2 is identical to column 4 (i.e., the combination of columns 1 and 2 is exactly the same as columns 3 and 4), then delete the content of columns 3 and 4. Left justify the remaining contents of the DWG_NUM field.

T41 If the content of field CTRL_CODE is '01' or 'Blanks', replace '01' or 'Blanks' with MC and flag for QA manual processing (i.e., Bad Hollerith).

T42 Identifies document numbers that end in a '-' or contain an 'AND' or 'THRU' as a DWG_NUM. Returns a DWG_NUM as all the characters up to but not including the '-', 'AND', or 'THRU'.

1. If column 17 is a '*', then flag as Bad Hollerith (DWG_NUM is incomplete).
2. If column 33 is a '*', then flag as Bad Hollerith (ACCOMPANYING_NUM is incomplete).

Valid Values:

DOC_TYPE: AD, AL, AM, AN, AP, AR, AS, AT, AW, BD, BI, BM, CB, CC, CD, CE, CF, CL, CM, CP, CR, CS, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D7, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FL, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, KD, LC, LD, LE, LG, LI, LL, LN, LM, LP, LQ, LS, LT, MD, ME, MI, ML, MP, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QA, QF, QL, QP, QR, QS, RD, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SR, SS, ST, SU, TB, TD, TL, TM, TO, TP, TR, TS, UF, UL, WB, WD, WH, WL, WS, WT, XX, 1L, 1N, 2L, 3L, 4L, 4R, 4T.

CTRL_CODE: All alphanumeric combinations.

ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, EX, IN, LE, MP, MT, NT, PD, SP, SQ, SU, VR.

SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

DIST_STMT: A, B, C, D, E, F, and X.

RIGHTS: U, L.

NEF (CARD_CODE): H.

DWG_REV, SHEET_REV: Blank, any alpha with exception of I, O, Q, S, X, and Z, which are not valid; alphanumerics are not valid.

Dialect 56, OO-ALC, H Format Dialect

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	01	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	03	15	Y	L	N	ANS	DWG_NUM	See T23, Notes 1 and 3.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	AN	DWG_REV, SHEET_REV	See Note 4.
KIND_OF_ACCOMPANYING_DOCUMENT	25	2	N	N	N	AN	ACCOMPANYING_KIND	
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	N	ANS	ACCOMPANYING_NUM	See Note 2.
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	AN	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	Y	N	N	A	DIST_STMT	See T31.
CARD_NUMBER_AF	39	4	Y	R	0	N	FRAME_NUMBER	See T44.
NUMBER_OF_CARDS_AF	43	4	Y	R	0	N	NUMBER_OF_FRAMES	See T44.
RIGHTS	47	1	Y	N	N	A	RIGHTS	See T31.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	
SCANNING_POSITION_CODE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	N	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
SHEET_PAGE_NUMBER_AF	78	3	Y	R	0	NS	SHEET_NUMBER	See T43 and T44.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T23 Identifies document numbers that contain a "/", "AND", or "THRU" as a THRU_DOCUMENT_NUMBER. Returns a DWG_NUM as all the characters up to but not including the "/", "AND", or "THRU".
T31 If column 35 is 'Blank' and there is a "U" in column 47 (RIGHTS), change value of column 35 to "D". If value of column 47 is other than "U", flag for QA manual processing (i.e., Bad Hollerith; invalid DIST_STMT).
T43 If SHEET_NUMBER field has an "*" in column 80 (indicates incomplete number), delete the content of field and flag for QA manual processing (i.e., Bad Hollerith; invalid SHEET_NUMBER).
T44 If value of NUMBER_OF_FRAMES field (columns 43–46) is greater than 999 and value of SHEET_NUMBER field (columns 78–80) is 001, do the following: (1) Delete the content of NUMBER_OF_FRAMES field and return the result as 001 (i.e., replace the value of NUMBER_OF_FRAMES field with 001); (2) Delete content of SHEET_NUMBER field (columns 78–80) and return content of FRAME_NUMBER field (columns 39–42) as SHEET_NUMBER; and (3) Populate FRAME_NUMBER field with 001.
1. If column 17 is an "*", then flag as Bad Hollerith (the DWG_NUM is incomplete).
2. If column 33 is an "*", then flag as Bad Hollerith (the ACCOMPANYING_NUM is incomplete).
3. DWG_ NUM is not allowed to have embedded 'Blanks'. Flag as Bad Hollerith if 'Blanks' are embedded with DWG_NUM.
4. SHEET_REV will be converted from numeric to alpha per MIL-STD-804C, Appendix A.

Valid Values:
DOC_TYPE: Any alphanumeric.
RIGHTS: U, L.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
DIST_STMT: Any alpha.
DWG_REV, SHEET_REV: Blank, any alpha or numeric (alphanumeric pairs are invalid).
NEF (CARD_CODE): H.
CTRL_CODE: CT, D4, DC, DF, DG, DH, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SB, SW.
ACCOMPANYING_KIND: Any alphanumeric.

Dialect 57, SA-ALC KELLY, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	01	2	N	N	N	ANS	DOC_TYPE	See T38, T40, and T45.
DOCUMENT_NUMBER	03	15	Y	L	N	ANS	DWG_NUM	See T40, T48, Notes 1 and 3.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See T24 and Note 4.
KIND_OF_ACCOMPANYING_DOCUMENT	25	2	N	N	N	ANS	ACCOMPANYING_KIND	See T34.
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	N	ANS	ACCOMPANYING_NUM	See T24, T34 and Note 2.
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	Y	N	N	A	DIST_STMT	
CARD_NUMBER_AF	39	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_AF	43	4	Y	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See T38.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	See T47 and Note 5.
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	See T38.
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
STABLE_BASE_INDICATOR	77	1	N	N	N	N	NEF	See T45.
SHEET_PAGE_NUMBER_AF	78	3	Y	R	0	N	SHEET_NUMBER	See T46.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T24 If SHEET_REV is 'Blank', set SHEET_REV to "+" if ACCOMPANYING_NUM field is populated.
T34 If either, but not both, ACCOMPANYING_KIND or ACCOMPANYING_NUM field is populated, flag as Bad Hollerith.
T38 Check the content of input field DOC_TYPE for unrelated drawing size and right information. If column 1 contains "U" or "L" and column 2 contains "A", "B", "C", "D", "E", "J", or "H", and columns 47 and 50 are 'Blanks', the data in columns 1 and 2 is RIGHTS and DWG_SIZE. Return data in column 1 to column 47 for field RIGHTS and return data in column 2 to column 50 for field DWG_SIZE, and return DOC_TYPE as 'Blank' in columns 1 and 2.
T40 If the content of column 1 is identical to column 3 and the content of column 2 is identical to column 4 (i.e., the combination of columns 1 and 2 is exactly the same as the combination of columns 3 and 4), then delete content of columns 3 and 4. Left justify the remainder of the contents of the DWG_NUM field.
T45 If DOC_TYPE is "D7" and column 77 is 'Blank', flag for QA manual processing (i.e., Bad Hollerith; invalid DOC_TYPE).
T46 If the SHEET_NUMBER field (columns 78–80) contains alpha, flag for QA manual processing (i.e., Bad Hollerith; invalid SHEET_NUMBER).
T47 If the content of field CTRL_CODE is "01" or 'Blanks', replace "01" or 'Blanks' with MB and flag for QA manual processing (i.e., Bad Hollerith; invalid CTRL_CODE).
T48 If DWG_NUM field contains a "-", "/", "AND", or "THRU" as DWG_NUM, flag for QA manual processing (i.e., Bad Hollerith; invalid DWG_NUM).
1. If column 17 is an "*", then flag as Bad Hollerith (DWG_NUM is incomplete).
2. If column 33 is an "*", then flag as Bad Hollerith (ACCOMPANYING_NUM is incomplete).
3. Flag as Bad Hollerith if DWG_NUM contains embedded 'Blanks'.
4. SHEET_REV will be converted from numeric to alpha per MIL-STD-804C, Appendix A.
5. If CTRL_CODE = SB, change value to MB.

Valid Values:
DOC_TYPE: Any alphanumeric.
CTRL_CODE: CT, D4, DC, DF, DG, DH, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
DWG_REV, SHEET_REV: Blank, any alpha or numeric; an alphanumeric pair is not valid.
DIST_STMT: Any alpha.
RIGHTS: U, L.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
NEF (CARD_CODE): H.
ACCOMPANYING_KIND: Any alphanumeric.
ACCOMPANYING_REV: Any alphanumeric.

Dialect 58, ATCOM (Army), T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	01	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER	03	15	Y	L	N	ANS	DWG_NUM	See Note 2.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_PAGE_NUMBER	23	3	Y	R	0	N	SHEET_NUMBER	See Note 1.
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	See Note 1.
CARD_FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. On SHEET_NUMBER 001, NUMBER_OF_SHEETS is required to be filled in and valid.
2. Flag as Bad Hollerith if embedded ‘Blanks’ are present in DWG_NUM.

Valid Values:
DOC_TYPE: Blank, any alphanumeric.
DWG_REV, SHEET_REV: Blank, any alphanumeric.
DIST_STMT: Any alphanumeric.
CTRL_CODE: CT, D4, DA, DC, DF, DG, DJ, DM, DT, DU, DV, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
RIGHTS: U, L.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
NEF (CARD_CODE): T.

Dialect 59, ATCOM (Army), H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	01	2	N	N	N	ANS	DOC_TYPE	
DOCUMENT_NUMBER_ACCOMPANIED	03	15	Y	L	N	ANS	DWG_NUM	See Note 1.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	
KIND_OF_ACCOMPANYING_DOCUMENT	25	2	N	N	N	ANS	ACCOMPANYING_KIND	
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	N	ANS	ACCOMPANYING_NUM	
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
CARD_NUMBER	39	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS	43	4	Y	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. Flag as Bad Hollerith if embedded ‘Blanks’ are present in DWG_NUM.

Valid values:
DOC_TYPE: Blank, any alphanumeric
DWG_REV, SHEET_REV: Blank, any alphanumeric.
ACC_DOC_TYPES: ZZ
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
RIGHTS: U, L.
DIST_STMT: Any alpha.
CTRL_CODE: CT, D4, DA, DC, DF, DG, DJ, DM, DT, DU, DV, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.
NEF (CARD_CODE): H.

Dialect 60, TACOM, T Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	Y	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	N	ANS	DWG_NUM	See Note 2.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_PAGE_NUMBER	23	3	Y	R	0	AN	SHEET_NUMBER	See Note 1.
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	See Notes 1 and 3.
CARD_FRAME_NUMBER	31	2	N	R	0	N	FRAME_NUMBER	See Note 4.
NUMBER_OF_CARDS_FRAMES	33	2	N	R	0	N	NUMBER_OF_FRAMES	See Note 4.
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	N	A	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. On SHEET_NUMBER 001, NUMBER_OF_SHEETS is required to be filled in and valid.
2. Flag as Bad Hollerith if embedded ‘Blanks’ are present in DWG_NUM.
3. If ‘Blank’, fill ‘0000’.
4. FRAME_NUMBER and NUMBER_OF_FRAMES are required if DWG_SIZE is equal to ‘K’ or ‘J’.

Valid Values:
DOC_TYPE: 1N, 4R, 4T, AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MD, ME, MI, ML, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QR, QS, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX.
CTRL_CODE: DF, DH.
RIGHTS: U, L.
NEF (CARD_CODE): T.
DWG_REV, SHEET_REV: Any alphanumeric.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for N only. Index is allowed for all others.
DIST_STMT: A, B, C, D, E, F, X.

Dialect 61, TACOM, H Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	01	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	03	15	Y	L	N	ANS	DWG_NUM	See Notes 1 and 3.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Note 5.
KIND_OF_ACCOMPANYING_DOCUMENT	25	2	N	N	N	AN	ACCOMPANYING_KIND	See T34.
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	N	ANS	ACCOMPANYING_NUM	See T34, Notes 2 and 5.
ACCOMPANYING_REVISION_LETTER	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
CARD_NUMBER_TACOM	39	4	Y	R	0	N	SHEET_NUMBER	
NUMBER_OF_CARDS_TACOM	43	4	N	R	0	N	NUMBER_OF_SHEETS	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	N	N	N	A	DWG_SIZE	See T49.
CARD_CODE	51	1	N	N	N	A	NEF	See T49.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T34 If either ACCOMPANYING_KIND or ACCOMPANYING_NUM is populated, then both fields must be populated or a Bad Hollerith flag is set.
T49 If the values of NEF (CARD_TYPE) field are “H” or ‘Blank’ and DWG_SIZE field is ‘Blank’, change the value of DWG_SIZE field to A, (i.e., drawing size A).
1. If column 17 is an “*”, then flag as Bad Hollerith (the DWG_NUM is incomplete).
2. If column 33 is an “*”, then flag as Bad Hollerith (the ACCOMPANYING_NUM is incomplete).
3. Flag as Bad Hollerith if embedded “Blanks” are present in DWG_NUM.
4. FRAME_NUMBER and NUMBER_OF_FRAME are set to ‘0001’.
5. If ACCOMPANYING_NUM is populated and SHEET_REV is ‘Blank’, set SHEET_REV to ‘+’.

Valid Values:
DOC_TYPE: 1N, 4R, 4T, AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MD, ME, MI, ML, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QR, QS, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX, Blank.
CTRL_CODE: DF, DH.
DIST_STMT: A, B, C, D, E, F, X.
DWG_REV, SHEET_REV: Any alphanumeric, +.
RIGHTS: U, L.
NEF (CARD_CODE): H, blank.
DWG_SIZE: A.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
ACCOMPANYING_REV: Any alphanumeric.
ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, EX, IN, LE, MP, MT, NT, PD, SP, SQ, SU, VR.

Dialect 62, ARDEC, T/ECP Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	01	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	03	15	Y	L	N	ANS	DWG_NUM	See Note 3.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_PAGE_NUMBER	23	3	Y	R	0	N	SHEET_NUMBER	See Note 2.
SHEET_REV_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	See Note 2.
CARD_FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
DATE	35	6	N	N	N	N	DWG_REV_DATE	See Note 1.
ERR_NUMBER	41	6	N	N	N	AN	NEF	
RIGHTS	47	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	
DRAWING_SIZE_DOCUMENT	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	
OBSOLETE	53	1	N	N	N	S	NEF	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. A 6-digit number: first 2 digits = month, second 2 digits = day, third 2 digits = year. The length and sequence date of document is month, day, year.
2. On SHEET_NUMBER 001, NUMBER_OF_SHEETS is required to be filled in and valid.
3. Flag as Bad Hollerith if embedded “Blanks” are present in DWG_NUM.

Valid Values:
DOC_TYPE: AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MD, ME, MI, ML, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QR, QS, RL, RR, SA, SB, SC, SD, SL, SK, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX, 1N, 4R, 4T.
DWG_REV, SHEET_REV: Blank, any alphanumeric.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
RIGHTS: U, L.
NEF (CARD_CODE): T.
CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RE, RH, RJ, RK, RL, RM, RN, RO, SW.

Dialect 63, ARDEC, TL Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	N	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_PAGE_NUMBER	23	3	Y	R	0	N	SHEET_NUMBER	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
CORRECTION_CODE	31	2	N	N	N	AN	NEF	
DATE	35	6	Y	N	N	N	DWG_REV_DATE	See Note 1.
PRON_NUMBER	41	6	Y	N	N	AN	NEF	
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	N	N	N	A	SECURITY_LEVEL	See Note 2.
DISTRIBUTION_CODE	78	2	Y	N	N	N	DIST_STMT	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. The length and sequence date of document is month, day, year. A 6-digit number: first 2 digits = month, second 2 digits = day, third 2 digits = year.
2. If SECURITY_CLASSIFICATION is BLANK, set SECURITY_LEVEL to 'N'.

Valid Values:
DOC_TYPE: AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MD, ME, MI, ML, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QR, QS, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX, 1N, 4R, 4T.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
NEF (CARD_CODE): T.
DIST_STMT: 2, 3, 4.

Dialect 64, ARDEC, Frankford

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
DRAWING_SIZE_DOCUMENT	02	1	Y	N	N	A	DWG_SIZE	See T51.
DOCUMENT_NUMBER	03	8	Y	L	N	ANS	DWG_NUM	
SHEET_PAGE_NUMBER	11	2	Y	R	0	N	SHEET_NUMBER	
NUMBER_OF_SHEETS	13	2	N	R	0	N	NUMBER_OF_SHEETS	
CARD_FRAME_NUMBER	19	1	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_CARDS_FRAMES	20	1	Y	R	0	N	NUMBER_OF_FRAMES	
SHEET_REVISION_LETTER	43	2	N	R	B	ANS	DWG_REV, SHEET_REV	
RIGHTS	47	1	N	N	N	A	RIGHTS	See Note 1.
CARD_CODE	51	1	N	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	N	N	N	A	SECURITY_LEVEL	See Note 2.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T51 Check for correct drawing size: A, B, C, D, E, F, G, H, J, or K. If not one of these sizes, flag for QA operator manual processing (i.e, “Bad Hollerith”; invalid DWG_SIZE).
1. If RIGHTS is blank, insert ‘U’ for the value of field RIGHTS.
2. If SECURITY_CLASSIFICATION is ‘Blank’, insert ‘N’ for the value of field SECURITY_LEVEL.

Valid Values:
DWG_SIZE: A, B, C, D, E, F, G, H, J, K.
RIGHTS: U, L.
DWG_REV, SHEET_REV: Blank, all alphanumeric.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
NEF (CARD_CODE): T.

Dialect 65, ARDEC, B Format Dialect

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	01	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	03	15	Y	L	N	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_PAGE_NUMBER	23	3	Y	R	0	AN	SHEET_NUMBER	See Note 1.
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	43	3	N	R	0	N	NUMBER_OF_SHEETS	See Note 1.
RIGHTS	46	1	N	N	N	A	RIGHTS	See Notes 2 and 3.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	N	AN	CTRL_CODE	
DWG_SIZE	50	1	Y	N	N	A	DWG_SIZE	
CARD_CODE	51	1	N	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. On SHEET_NUMBER 001, NUMBER_OF_SHEETS is required to be filled in and valid.
2. If RIGHTS is ‘Blank’, insert value ‘U’ for the RIGHTS.
3. If RIGHTS is ‘G’, insert value ‘U’ for the RIGHTS. If RIGHTS is ‘P’, insert value ‘L’ for the RIGHTS.

Valid Values:
DOC_TYPE: AD, AL, AM, AN, AP, AR, AS, BI, BM, CD, CE, CF, CL, CM, CP, CR, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D9, EA, EC, ED, EL, EM, EO, EP, ER, ET, FD, FN, FS, GB, GC, GF, GI, GL, HD, ID, IE, IL, IM, IN, LC, LD, LE, LG, LI, LL, LM, LN, LP, LQ, LS, LT, MD, ME, MI, ML, MQ, MS, NC, NO, NP, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PR, PS, QF, QL, QP, QR, QS, RL, RR, SA, SB, SC, SD, SK, SL, SM, SP, SQ, SS, SU, TD, TL, TM, TO, TP, TR, TS, UF, WD, WL, WS, WT, XX, 1N, 4R, 4T.
RIGHTS: U, L, G, P.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
DWG_REV, SHEET_REV: Any alphanumeric.
CTRL_CODE: CT, D4, DC, DF, DG, DH, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RE, RH, RJ, RK, RL, RM, RN, RO, SW.
NEF (CARD_CODE): T.

Dialect 66, ARDEC, Weapons

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
DRAWING_SIZE_DOCUMENT	02	1	Y	N	N	A	DWG_SIZE	See T51.
DOCUMENT_NUMBER	03	8	Y	L	N	ANS	DWG_NUM	
SHEET_PAGE_NUMBER	11	2	Y	R	0	AN	SHEET_NUMBER	See Note 1.
NUMBER_OF_SHEETS	13	2	N	R	0	N	NUMBER_OF_SHEETS	See Note 1.
CARD_FRAME_NUMBER	15	1	Y	R	0	AN	FRAME_NUMBER	
NUMBER_OF_CARDS_FRAMES	16	1	Y	R	0	N	NUMBER_OF_FRAMES	
SHEET_REVISION_LETTER	17	2	N	R	B	ANS	DWG_REV, SHEET_REV	
DATE	19	6	Y	N	N	N	DWG_REV_DATE	See Note 3.
RIGHTS	47	1	N	N	N	A	RIGHTS	See Note 2.
CARD_CODE	51	1	N	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	N	N	N	A	SECURITY_LEVEL	See Note 4.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
T51 Check for correct drawing size: A, B, C, D, E, F, G, H, J, or K.
1. On SHEET_NUMBER 001, NUMBER_OF_SHEETS is required to be filled in and valid.
2. If the value of field RIGHTS is ‘Blank’, insert value ‘U’ for RIGHTS.
3. The length and sequence date of document is month, day, year. A 6-digit number: first 2 digits = month, second 2 digits = day, third 2 digits = year.
4. If the value of field SECURITY_CLASSIFICATION is ‘Blank’, insert value ‘N’ for SECURITY_LEVEL.

Valid Values:
RIGHTS: Blank, U, L.
DWG_REV, SHEET_REV: Blank, any alphanumeric.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
NEF (CARD_CODE): T.
DWG_SIZE: A, B, C, D, E, F, G, H, J, K.

Dialect 67, ARDEC, Picatinny

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
DRAWING_SIZE_DOCUMENT	02	1	Y	N	N	A	DWG_SIZE	
DOCUMENT_NUMBER	03	8	Y	L	N	ANS	DWG_NUM	
SHEET_PAGE_NUMBER	11	2	Y	R	0	AN	SHEET_NUMBER	See Note 2.
NUMBER_OF_SHEETS	13	2	N	R	0	N	NUMBER_OF_SHEETS	See Note 2.
DATE	15	6	Y	N	N	N	DWG_REV_DATE	See Note 1.
CARD_FRAME_NUMBER	29	2	Y	R	0	AN	FRAME_NUMBER	
NUMBER_OF_CARDS_FRAMES	32	2	Y	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	47	1	N	N	N	A	RIGHTS	See Note 3.
CARD_CODE	51	1	N	N	N	A	NEF	
SECURITY_LEVEL	52	1	N	N	N	A	SECURITY_LEVEL	See Note 4.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. The length and sequence date of document is month, day, and year. A 6-digit number: first 2 digits = month, second 2 digits = day, and third 2 digits = year.
2. On SHEET_NUMBER 001, NUMBER_OF_SHEETS is required to be filled in and valid.
3. If the value of field RIGHTS is blank, insert value ‘U’ for RIGHTS.
4. If the value of field SECURITY_CLASSIFICATION is ‘Blank’, insert value ‘N’ for SECURITY_LEVEL.

Valid Values:
RIGHTS: Blank, U.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
NEF (CARD_CODE): T.

Dialect 68, ARDEC, A Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
RIGHTS	01	1	Y	N	N	A	RIGHTS	See Note 2.
DRAWING_SIZE_DOCUMENT	02	1	Y	N	N	A	DWG_SIZE	
DOCUMENT_NUMBER	03	15	Y	L	N	ANS	DWG_NUM	
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_PAGE_NUMBER	23	3	Y	R	0	AN	SHEET_NUMBER	
SHEET_REVISION_LETTER	26	2	N	R	B	ANS	DWG_REV, SHEET_REV	
NUMBER_OF_SHEETS	28	3	N	R	0	N	NUMBER_OF_SHEETS	
FRAME_NUMBER	31	2	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	33	2	Y	R	0	N	NUMBER_OF_FRAMES	
CONTROL_ACTIVITY_ALTERNATIVE	48	2	N	N	B	AN	CTRL_CODE	
CARD_CODE	51	1	N	N	N	A	NEF	See Note 1.
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If the value of field NEF (CARD_TYPE) is 'Blank', insert 'A' for the value of NEF (CARD_TYPE).
2. If RIGHTS = 'G', set RIGHTS = 'U'. If RIGHTS = 'P', set RIGHTS = 'L'.

Valid Values:
RIGHTS: U, L, G, P.
SECURITY_LEVEL: All JEDMICS values—N, C, M, S, T, E, F, G, H, J, K. Allow images for type N only. Index is allowed for all others.
NEF (CARD_CODE): Blank, A.
DWG_REV, SHEET_REV: Any alphanumeric.
CTRL_CODE: BA, CT, D4, DC, DF, DG, DH, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.

Dialect 69, CECOM, H Expanded Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	1	2	N	N	N	AN	DOC_TYPE	
DOCUMENT_NUMBER	3	15	Y	L	N	ANS	DWG_NUM	See T39.
CODE_IDENTIFICATION	18	5	Y	N	N	AN	CAGE	
SHEET_REVISION_LETTER	23	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Note 1.
ACCOMPANYING_DOCUMENT_KIND	25	2	N	N	N	AN	ACCOMPANYING_KIND	
ACCOMPANYING_DOCUMENT_NUMBER	27	7	N	L	N	ANS	ACCOMPANYING_NUM	See Note 2.
ACCOMPANYING_DOCUMENT_REVISION	34	1	N	N	N	ANS	ACCOMPANYING_REV	
DISTRIBUTION_STATEMENT	35	1	N	N	N	A	DIST_STMT	
CARD_NUMBER	39	4	Y	R	0	N	SHEET_NUMBER	
NUMBER_OF_CARDS	43	4	Y	R	0	N	NUMBER_OF_SHEETS	
RIGHTS	47	1	Y	N	N	A	RIGHTS	See Note 6.
CONTROL_ACTIVITY_ALTERNATIVE	48	2	Y	N	N	AN	CTRL_CODE	See Note 3.
DRAWING_SIZE_DOCUMENT	50	1	N	N	N	A	DWG_SIZE	See T39 and Note 5.
CARD_CODE	51	1	Y	N	N	A	NEF	
SECURITY_CLASSIFICATION	52	1	Y	N	N	A	SECURITY_LEVEL	See Note 4.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:

T39 If DWG_NUM field contains the character string 'SM-alpha-' or 'SC-alpha-' in columns 3–7 (alpha is one character) and column 50 (DWG_SIZE) is blank, then return the alpha character in column 6 as DWG_SIZE (in column 50) when alpha character is 'A', 'B', 'C', 'D', 'E', 'F', 'H', 'J', or 'K'. The DWG_NUM character string does not change, i.e., alpha character remains in column 6.

1. If SHEET_REV = '-' (dash), then set SHEET_REV to 'Blank'.
2. If column 33 = '*', then flag as Bad Hollerith (the ACCOMPANYING_NUM is incomplete).
3. Change CTRL_CODE from 'CU' to 'DU'. (CU is Vint Hill Farm Station Virginia Activity Code. Vint Hill is now a part of CECOM).
4. Change SECURITY_LEVEL from 'U' to 'N'.
5. At the HSACS, if the field DWG_SIZE is 'Blank' on the aperture card and translator T39 does not apply, set DWG_SIZE to the value set in the HSACS Scan Parameters screen H-Type field.
6. Change RIGHTS from 'G' to 'U'. Change RIGHTS from 'P' to 'L'.
7. FRAME_NUMBER is set to '0001', NUMBER_OF_FRAMES is not set.

Valid Values:

DOC_TYPE: AD, AL, AM, AN, AP, AW, BM, CB, CC, CD, CE, CF, CL, CM, CP, CR, CS, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, D1, D2, D3, D4, D5, D6, D7, D8, D9, EC, ED, EL, EM, EO, EP, ER, ET, FD, FL, FN, GL, HD, ID, IL, IM, KD, LC, LD, LE, LM, LP, LS, MD, ME, MI, ML, MP, MS, NC, NT, OD, OI, OS, PB, PC, PD, PE, PK, PL, PP, PR, PS, QA, QF, QL, QP, QR, QS, RD, RL, SA, SB, SC, SD, SE, SL, SM, SP, SQ, SS, ST, SU, TB, TD, TL, TM, TO, TP, TR, TS, UL, WB, WD, WH, WL, WS, WT, XX, 1N, 4R, 4T, 1L, 2L, 3L, 4L.

ACCOMPANYING_KIND: 1N, AD, AM, AN, AP, AR, AT, EX, MT, NT, SP, SU, VR.

CTRL_CODE: CT, D4, DC, DF, DG, DJ, DM, DT, DU, DY, DZ, HR, KJ, KL, MB, MC, ME, MF, MG, PA, QG, QK, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RH, RJ, RK, RL, RM, RN, RO, SW.

RIGHTS: U, L, G, P.

NEF (CARD_CODE): H.

SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

DIST_STMT: A, B, C, D, E, F, X.

DWG_REV, SHEET_REV: Blank, any alphanumeric.

ACCOMPANYING_REV: Any alphanumeric.

Standard A Format Card

			All Default Schemes				Scheme Normal				Scheme Special-T				Scheme 804b				Scheme 38761/2A				Comments
Field Name	**FSP**	**L**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	
RIGHTS	1	1	Y	N	N	A	In 'UL'				In 'ULGP'				In 'UL'				In 'UL'				See Note 1.
DRAWING_SIZE	2	1																					Used but not verified.
DRAWING_NUMBER	3	15	Y	L	B	ANS																	
CAGE	18	5	Y	L	N	ANS																	
SHEET_NUMBER	23	3					Y	L	0	ANS	Y	L	0	ANS	Y	L	0	N	Y	L	0	ANS	Normal, Special-T, 38761/ 2A, Use overpunch 4.
SHEET_REVISIONS	26	2													N	L	0	A	DWG_REV= SHEET_REV				Only verified in 804B.
NUMBER_OF_SHEETS	28	3					Y	L	0	ANS	Y	L	0	ANS	Y	L	0	N	Y	L	0	ANS	Normal, Special_T, 38761/ 2A, Use overpunch 4.
FRAME_NUMBER	31	2					Y	L	0	ANS	Y	L	0	ANS	Y	L	0	N	Y	L	0	ANS	Normal, Special_T, 38761/ 2A, Use overpunch 4.
NUMBER_OF_FRAMES	33	2					Y	L	0	ANS	Y	L	0	ANS	Y	L	0	N	Y	L	0	ANS	Normal, Special_T, 38761/ 2A, Use overpunch 4.
SHIP_TYPE	35	4																	Y	L	B	A	STHN (POS 1–4)
SHIP_HULL	39	4																	Y	R	0	N	STHN (POS 5–9)
GROUP_NUMBER	43	4																	N	R	0	N	Save in JEDMICS as Ship_Class. If 'Blank' does NOT flag as Bad Hollerith.
CONTROL_CODES	48	2	Y	N	N	AN																	
CARD_TYPE	51	1	Y	N	N	A																	
SECURITY_LEVEL	52	1	Y	N	N	A																	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If ‘Blank’, flag as Bad Hollerith.

Valid Values:
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

Standard H Format Card

			All Default Schemes				Scheme Normal				Scheme Special-T				Scheme 804B				Scheme 38761/2A				Comments
Field Name	**FSP**	**L**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	
DOC_NUM	1	2																					Used but not verified.
DWG_NUM	3	15	Y	L	B	ANS																	
CAGE	18	5	Y	N	N	ANS																	
SHEET_REV	23	2													N	R	B	A					
ACCOMPANYING_DOCUMENT_KIND	25	2																					
ACCOMPANYING_DOCUMENT_NUMBER	27	7																					
ACCOMPANYING_DOCUMENT_REVISION	34	1																					
DISTRIBUTION_STATEMENT	35	1																					
OPENL	36	3																					
SHEET_NUMBER	39	4					Y	N	N	ANS	Y	N	N	ANS	Y	R	O	N	Y	N	N	ANS	Normal, Special_T, 38761/2A, Overpunch 4.
NUMBER_OF_SHEETS	43	4					Y	N	N	ANS	Y	N	N	ANS	Y	R	O	N	Y	N	N	ANS	Normal, Special_T, 38761/2A, Overpunch 4.
RIGHTS	47	1	Y	N	N	A	In ‘GULP’				In ‘GULP’				In ‘UL’				In ‘GULP’				See Note 1.
CONTROL_CODE	48	2	Y	N	N	A																	
DRAWING_SIZE	50	1																					
SECURITY_LEVEL	52	1	Y	N	N	A																	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. If ‘Blank’, flag as Bad Hollerith.

Valid Values:
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

Standard T Format Card

			All Default Schemes				Scheme Normal				Scheme Special-T				Scheme 804B				Scheme 38761/2A				Comments
Field Name	**FSP**	**L**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	**R**	**J**	**F**	**T**	
DOCUMENT_TYPE	1	2																	N	N	N	AN[3]	
DRAWING_NUMBER	3	15	Y	L	B	ANS																	
CAGE	18	5	Y	N	N	ANS																	
SHEET_NUMBER	23	3					Y	N	N	ANS	Y	N	N	ANS[1]	Y	R	0	N	Y	N	N	ANS[1]	
SHEET_REVISION	26	2													N	R	B	A					
NUMBER_OF_SHEETS	28	3					Y	N	N	ANS	N	N	N	ANS[2]	Y	R	0	N	N	N	N	ANS[2]	Overpunch 3 in 38761/2A.
FRAME_NUMBER	31	2					Y	N	N	ANS	Y	L	B	ANS					Y	N	N	ANS	Not used in 804B.
NUMBER_OF_FRAMES	33	2					Y	N	N	ANS	N	N	N	ANS					N	N	N	ANS[4]	Not used in 804B.
STHN	35	8									N	L	B	ANS					N	N	N	ANS[5]	Overpunch 3 in 38761/2A.
HULL	43	4										R	0										
RIGHTS	47	1	Y	N	N	A	In ‘GULP’				In ‘GULP’				In ‘UL’								See Note 6.
CONTROL_CODE	48	2	Y	N	N	A																	
DRAWING_SIZE	50	1																					
SECURITY_LEVEL	52	1	Y	N	N	A																	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. In scheme 38761/2A and scheme Special-T, if position 25 = '*', then SHEET_NUM from position 35 until the first dash and no more than 6; also check if the SHEET_NUM is a subsheet.
2. In scheme 38761/2A and scheme Special-T, only used if SHEET_NUM = 001.
3. In scheme 38761/2A valid document types are: 1N, CD, DL, DM, DN, EL, EN, GL, IL, LD, LM, ML, PL, RL. SA, WL for 38761/2A. If invalid, do not use it and do not consider it an error.
4. In scheme 38761/2A, only used when FRAME_NUM = 0001 and overpunch 3.
5. In scheme 38761/2A, if STHN = '688 CLASS', then STHN = 'SSN 0688'; else ship type is left justified, blank filled and hull is right justified, zero filled. Ship type is the first four positions of STHN and hull type is the last four.
6. If 'blank', flag as Bad Hollerith.

Tape Dialect 1, MIL-STD-1840B Tape Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
RECORD_IDENTIFIER (service doc ID)	01	10					NEF	
TYPE_OF_DOCUMENT	11	2	N	N	N	AN	DOC_TYPE	See Note 1.
DOCUMENT_NUMBER	13	15	Y	N	N	ANS	DWG_NUM	
CODE_IDENTIFICATION	28	5	Y	N	N	AN	CAGE	
REVISION_LETTER	33	2	N	R	B	AN	DWG_REV, SHEET_REV	See Notes 2, 3, and 9.
ACCOMPANYING_DOCUMENT_KIND	35	2	N	N	N	AN	ACCOMPANYING_KIND	See Note 1.
ACCOMPANYING_DOCUMENT_NUMBER	37	7	N	N	N	ANS	ACCOMPANYING_NUM	
ACCOMPANYING_DOCUMENT_REVISION	44	1	N	R	B	AN	ACCOMPANYING_REV	See Note 3.
WEAPON_SYSTEM_CODE	45	4	N	N	N	AN	MAJOR_REPOSITORY_ CODE	
FRAME_NUMBER	49	4	Y	R	0	N	FRAME_NUMBER	See Note 10.
NUMBER_OF_FRAMES	53	4	N	R	0	N	NUMBER_OF_FRAMES	See Note 10.
RIGHTS	57	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	58	2	N	N	N	AN	CTRL_CODE	
FORMAT_CODE	60	1	Y	N	N	A	NEF	See Note 5.
SECURITY_CLASSIFICATION	61	1	Y	N	N	A	SECURITY_LEVEL	
SHEET_NUMBER	62	4	N	R	0	NS	SHEET_NUMBER	See Notes 7 and 8.
DRAWING_SIZE	66	2	Y	N	N	A	DWG_SIZE	See Note 12.
DISTRIBUTION_STATEMENT	68	1	N	N	N	A	DIST_STMT	
DATA_CONTROL_CODE	69	1					NEF	
COMPLEX_SHEET_NUMBER	70	12	N	N	N	ANS	SHEET_NUMBER	See Notes 5, 7, and 8.

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:

1. Must be two characters long if specified.
2. If there are multiple sheets/images to the document, then the first sheet/image will identify the highest revision level of the set.
3. Alpha characters only. If the revision level is numeric, convert to alpha using table VII in MIL-STD-1840B. If alphanumeric, flag as Bad Hollerith.
5. Format code, H or T, as defined in MIL-STD-804.
7. The MIL-STD-1840B tape format was updated in Release 2.5 to support complex SHEET_NUMBER. The tape import process will detect the SHEET_NUMBER (i.e., COMPLEX_SHEET_NUMBER) by the "*" in the first position of the SHEET_NUMBER field and insert the SHEET_NUMBER (i.e., COMPLEX_SHEET_NUMBER) into the SHEET_NUMBER field in the database. The tape export process will populate the SHEET_NUMBER (i.e., COMPLEX_SHEET_NUMBER) by placing an "*" in the first position of SHEET_NUMBER. (BCR 138R1)
8. Tape Export of MIL-STD-1840B now places an asterisk in column 65 when the record has a SHEET_NUMBER (i.e., COMPLEX_SHEET_NUMBER). Previously, the asterisk was placed in column 62. The SHEET_NUMBER (i.e., COMPLEX_SHEET_NUMBER) itself is written to column 70 for 12 spaces.
9. The MIL-STD-1840B tape format was updated in Release 2.5. Changes include a 2-character, right-justified Revision Letter. In MIL_STD_1840B, Revision Letter is written in JEDMICS DWG_REV and SHEET_REV fields.
10. The MIL-STD-1840B tape format was updated in Release 2.5. FRAME_NUMBER and NUMBER_OF_FRAMES are 4-character, right-justified, zero-filled numeric fields written to JEDMICS FRAME_NUMBER and NUMBER_OF_FRAMES, respectively.
12. If DWG_SIZE length is two, if second character is a digit use first character; if second character is not a digit, use second character.

Valid Values:
DOC_TYPE: Blank, any alphanumeric.
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
ACCOMPANYING_KIND: Blank, any alphanumeric.
CTRL_CODE: Blank, any alphanumeric.
DWG_REV, SHEET_REV: Blank.
NEF (FORMAT_CODE): H, T.
DIST_STMT: Any alpha.

General Note: All tape dialects ignore the contents of the declaration files and only evaluate the Service Document ID record of the data file header.

Tape Dialect 2, Fairborn Tape Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	11	2	N	N	N	AN	DOC_TYPE	See Note 4.
DOCUMENT_NUMBER	13	15	Y	N	N	ANS	DWG_NUM	
CODE_IDENTIFICATION	28	5	Y	N	N	AN	CAGE	
REVISION_LETTER	33	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Note 1.
ACCOMPANYING_DOCUMENT_KIND	35	2	N	N	N	AN	ACCOMPANYING_KIND	See Note 4.
ACCOMPANYING_DOCUMENT_NUMBER	37	7	N	N	N	AN	ACCOMPANYING_NUM	
ACCOMPANYING_DOCUMENT_REVISION	44	1	N	N	N	AN	ACCOMPANYING_REV	See Note 1.
WEAPON_SYSTEM_CODE	45	4	N	N	N	AN	MAJOR_REPOSITORY_ CODE	
FRAME_NUMBER	49	4	N	R	0	N	FRAME_NUMBER	See Note 2.
NUMBER_OF_FRAMES	53	4	N	R	0	N	NUMBER_OF_FRAMES	See Note 2.
RIGHTS	57	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	58	2	N	N	N	AN	CTRL_CODE	
SECURITY_CLASSIFICATION	61	1	Y	N	N	A	SECURITY_LEVEL	
SHEET_NUMBER	62	4	Y	R	0	AN	SHEET_NUMBER	
DRAWING_SIZE	66	2	Y	L	N	A	DWG_SIZE	See Note 3.
DISTRIBUTION_STATEMENT	68	1	N	N	N	A	DIST_STMT	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. Alpha characters only. If the revision level is numeric, convert to alpha using Table IV in MIL-STD-1840A.
2. The MIL-STD-1840A tape format was upgraded in Release 2.5. FRAME_NUMBER and NUMBER_OF_FRAMES are 4-character, right-justified, zero filled fields.
3. If DWG_SIZE length is two, if second character is a digit, use first character; otherwise use the second character.
4. Must be two characters in length.

Valid values:
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DOC_TYPE: Blank, any alphanumeric.
CTRL_CODE: Blank, any alphanumeric.
ACCOMPANYING_KIND: Blank.

General Note: All tape dialects ignore the contents of the declaration files and only evaluate the Service Document ID record of the data file header.

Tape Dialect 3, DSREDS Tape Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	11	2	N	N	N	AN	DOC_TYPE	See Note 2.
DOCUMENT_NUMBER	13	15	Y	N	N	ANS	DWG_NUM	
CODE_IDENTIFICATION	28	5	Y	N	N	AN	CAGE	
REVISION_LETTER	33	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Note 1.
ACCOMPANYING_DOCUMENT_KIND	35	2	N	N	N	AN	ACCOMPANYING_KIND	See Note 2.
ACCOMPANYING_DOCUMENT_NUMBER	37	7	N	N	N	AN	ACCOMPANYING_NUM	
ACCOMPANYING_DOCUMENT_REVISION	44	1	N	N	N	AN	ACCOMPANYING_REV	See Note 1.
WEAPON_SYSTEM_CODE	45	4	N	N	N	AN	MAJOR_REPOSITORY_ CODE	
FRAME_NUMBER	49	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	53	4	N	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	57	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	58	2	N	N	N	AN	CTRL_CODE	
SECURITY_CLASSIFICATION	61	1	Y	N	N	A	SECURITY_LEVEL	
DRAWING_SIZE	67	1	Y	N	N	A	DWG_SIZE	
SHEET_NUMBER	87	3	Y	R	0	AN	SHEET_NUMBER	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. Alpha characters only. If the revision level is numeric, convert to alpha using Table VII in MIL-STD-1840B.
2. Must be two characters long.

Valid Values:
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.
DOC_TYPE: Blank, any alphanumeric.
CTRL_CODE: Blank, any alphanumeric.
ACCOMPANYING_KIND: Blank.

General Note: All tape dialects ignore the contents of the declaration files and only evaluate the Service Document ID record of the data file header.

Tape Dialect 4, MAXIMA (Air Force) Tape Format

Input Field Name	FSP	L	R	J	F	T	JEDMICS Field	Disposition
TYPE_OF_DOCUMENT	11	2	N	N	N	AN	DOC_TYPE	See Note 2.
DOCUMENT_NUMBER	13	15	Y	N	N	ANS	DWG_NUM	
CODE_IDENTIFICATION	28	5	Y	N	N	AN	CAGE	
REVISION_LETTER	33	2	N	R	B	ANS	DWG_REV, SHEET_REV	See Note 1.
ACCOMPANYING_DOCUMENT_KIND	35	2	N	N	N	AN	ACCOMPANYING_KIND	See Note 2.
ACCOMPANYING_DOCUMENT_NUMBER	37	7	N	N	N	AN	ACCOMPANYING_NUM	
ACCOMPANYING_DOCUMENT_REVISION	44	1	N	N	N	AN	ACCOMPANYING_REV	See Note 1.
WEAPON_SYSTEM_CODE	45	4	N	N	N	AN	MAJOR_REPOSITORY_ CODE	
FRAME_NUMBER	49	4	Y	R	0	N	FRAME_NUMBER	
NUMBER_OF_FRAMES	53	4	N	R	0	N	NUMBER_OF_FRAMES	
RIGHTS	57	1	Y	N	N	A	RIGHTS	
CONTROL_ACTIVITY	58	2	N	N	N	A	CTRL_CODE	
DRAWING_SIZE	60	1	Y	N	N	A	DWG_SIZE	
SECURITY_CLASSIFICATION	62	1	Y	N	N	A	SECURITY_LEVEL	
DIST_STMT	87	1	N	N	N	A	DIST_STMT	
SHEET_NUMBER	88	3	Y	R	0	AN	SHEET_NUMBER	

Key:
FSP—Field Start Position
L—Length of Field
R—Required Field (Y=Yes, N=No)
J—Field Justification (L=Left, R=Right, N=Not Justified)
F—Fill Character (B=Blank, N=Null, 0=Zero)
T—Field Type (ANS=Alpha Numeric Special, AN=Alpha Numeric, N=Numeric, A=Alpha, S=Special Character)
NEF—No Equivalent JEDMICS Field

Notes/Translations/Dispositions:
1. Alpha characters only. If the revision level is numeric, convert to alpha using Table VII in MIL-STD-1840B.
2. Must be two characters long.

Valid Values:
SECURITY_LEVEL: N, C, M, S, T, E, F, G, H, J, K.

General Note: All tape dialects ignore the contents of the declaration files and only evaluate the Service Document ID record of the data file header.

This page is intentionally blank.

Appendix B.—Correcting QA Flags

This page is intentionally blank.

This appendix provides information on the quality assurance (QA) flags that are automatically set in the image header when drawings or aperture cards are scanned. These flags are transparent to the scan operation but become apparent once the images are retrieved from a Data Integrity Control Workstation. A standard MRS report named QA REJECT REASON can be run to audit the reasons for rejection based on bad Hollerith due to an invalid document type, security code, or sheet number.

These internal flags are grouped into four main categories to identify the state of the drawing after it has taken a digital form.

Categories	Resulting QA Flag
Focus	Clear Blurred Unsure
Light/Dark	Too light
	Too dark
Compression	Poor compression, QA Failure
Bad Hollerith	Bad Hollerith

The flag stored in the pending database can be any one or a combination of these four categories. For example, the flag could be blurred, too dark, poor compression, and bad Hollerith; or it could simply be clear.

To correct these QA flags, re-scan the images using different scan parameters. This does not apply to images that are flagged only for bad Hollerith. This condition must be corrected by the QA operator on a Data Integrity Control Workstation. General guidelines for correcting QA flags are provided in the following paragraphs.

a. Re-scan the aperture card using different combinations of threshold levels (1-8) and dynamic tracking (On/Off) settings. For example, if the image is flagged as too light, re-scan the aperture card using a lower threshold level. The lower the threshold level, the darker the resulting image will be.

b. When dynamic tracking is turned on, more image data is captured, but a varying degree of background “dirt” also tends to be captured. This may result in a QA flag of poor compression or blurred. Use dynamic tracking when the contrast between the aperture card image and the background is poor.

c. There will be some aperture cards that cannot be scanned well enough to produce a clear QA flag. In these cases, you may:

- Accept the image as it is scanned and have the QA operator perform clean up.
- Re-film (or re-order) the aperture card and scan the new card.
- Locate the original hardcopy drawing, and scan it on the large format scanner.

Appendix C.—Setting Offsets on the Aperture Card Scanner

This page is intentionally blank.

Image size settings control the area of the scan window you want to capture. The four values for these settings are: line width, pixel width, line offset, and pixel offset. Line and pixel widths set the size of the scan window. Line and pixel offsets move the scan window relative to an image's location on the card.

For the purpose of this appendix, references to up and down refer to the view window and not to the actual drawing.

Changing Settings

Complete these steps to change size settings:

a. From the Interactive Scan window, select **Parameters**.

b. Select **Size Settings**.

c. The Window Size Settings screen displays.

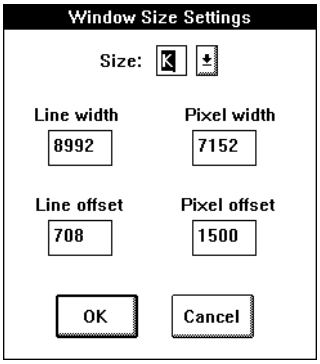


Figure 54.—Window Size Settings Screen

d. Click the size of the drawing being scanned.

It is possible to change a drawing size other than the one being scanned. A common mistake is to change the size parameters when the screen comes up without first checking the drawing size indicated. If this happens, the changes will have been made to another drawing size and there will be no change to the size being scanned.

e. The pixel or line offsets, and/or pixel or line widths may be modified by entering new values in the appropriate field(s). The valid size settings are calculated and verified with the following formulas:

Pixel settings:

Height > (Pixel Offset * 0.004) + ((Pixel Width * 0.004) * (30.00/Reduction Factor))

Line Settings:

Width > (Line Offset * 0.004) + ((Line Width * 0.004) * (30.00/Reduction Factor))

where Pixel Offset ≥ 800 for all drawing sizes
Reduction Factor is as follows:

A, B, C size drawings	=	16
D size drawings	=	24
E size drawings	=	30

Height <38.6mm
Width <43.2mm

Each HSACS has unique maximum settings due to their respective alignments and calibration. As a result, the apparent maximum settings, as determined by the above formulas, may exceed the individual scanner's limits and cause scanner window parameter errors. As shown below, it is recommended to choose a narrower setting to avoid unnecessary errors. The HSACS rounds settings to the nearest multiples of 16.

The following results, calculated using height equals 37.4 and width equals 42.2, should be valid for most HSACSs:

Drawing Sizes	A, B, C	D	E
Pixel Width	4543	6814	8518
Pixel Offset	832	832	832
Line Width	5558	8338	10422
Line Offset	128	128	128

f. Choose **OK** to accept the changes. Select **Cancel** to revert to the previous values without saving.

Setting Offsets

It is important to set the offsets before setting the widths. Below is a list of guidelines to consider before setting the offsets. Refer to the diagrams in this appendix.

a. Increase the line offset if there is too much white space at the top of the screen.

b. Decrease the line offset if the image is cut off at the top of the screen.

c. Increase the pixel offset if there is too much white space at the left of the screen.

d. Decrease the pixel offset if the image is cut off at the left of the screen.

Setting Widths

Once the offsets are properly adjusted, the bottom and/or right margins may require adjustment. Do this ONLY after the offsets are correct. The following list offers guidelines to consider before setting widths. Refer to the diagrams in this appendix.

a. Decrease line width if there is too much white space at the bottom of the screen.

b. Increase line width if the image is cut off at the bottom of the screen.

c. Decrease pixel width if there is too much white space at the right of the screen.

d. Increase pixel width if the image is cut off at the right of the screen.

Altering Line Offset

Problem:

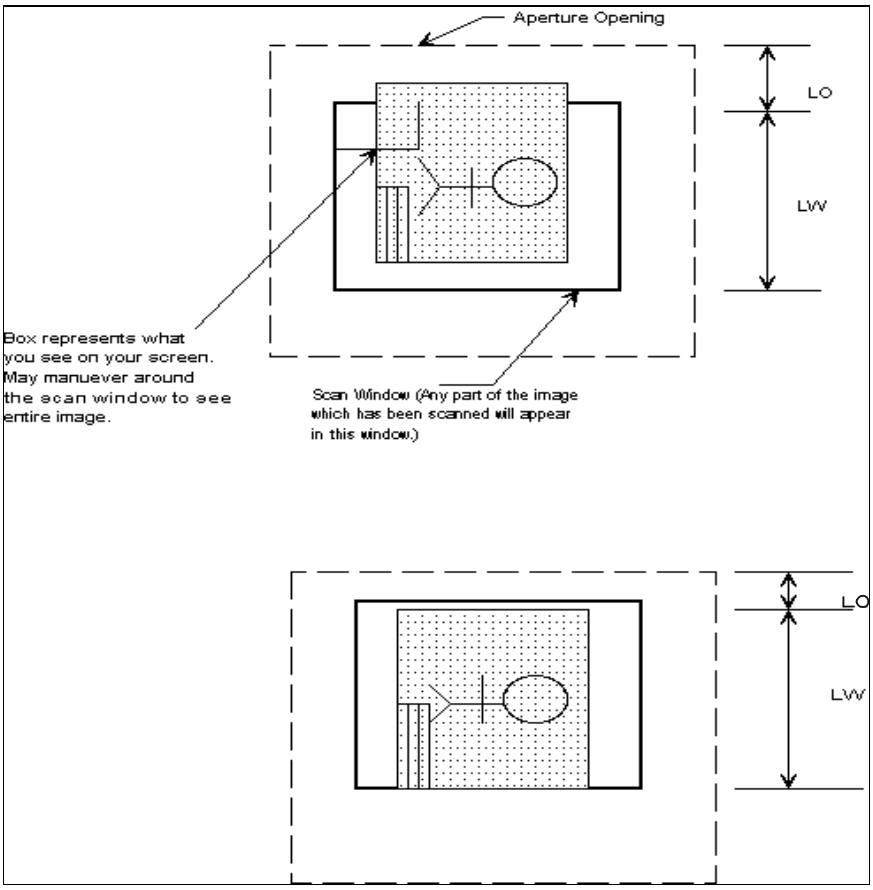
Image is cut off at top.

Solution:

The line offset (LO) must be decreased and then re-scanned to include the rest of the image in the scan window.

Effect:

Although line offset was decreased, line width (LW) is not affected. This has the effect of pulling the entire scan window upward. Notice that the bottom margin has been altered and there is less white space on the image scanned.



Altering Pixel Offset

Problem:

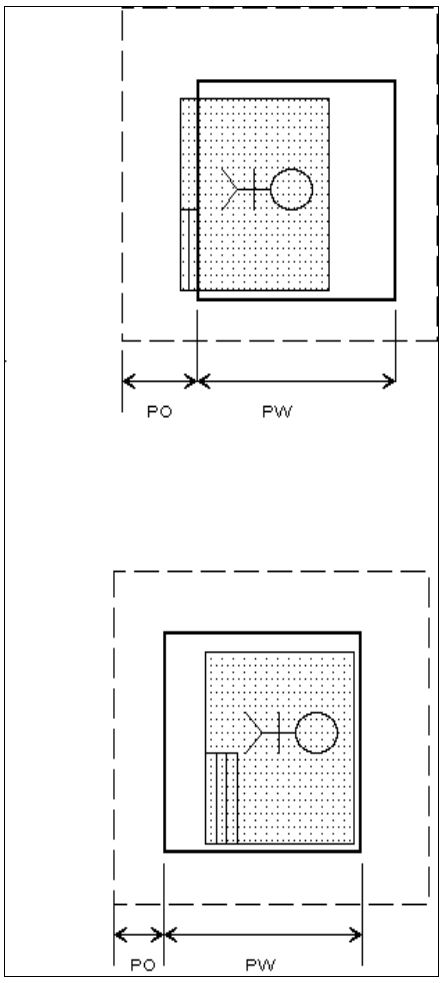
Image is cut off on left side.

Solution:

The pixel offset (PO) must be decreased and then re-scanned.

Effect:

Although pixel offset is changed, the pixel width (PW) remains unaffected. Decreasing the pixel offset has the effect of pulling the entire scan window to the left, which also changes the right side of the drawing as well.



Altering Line Width

Problem:

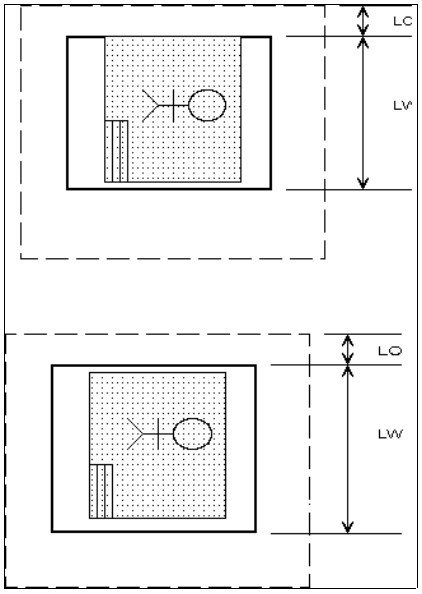
There is not enough white space at the bottom of the image.

Solution:

The line width must be increased and then re-scanned.

Effect:

Since the line offset remains unchanged, the top part of the image does not move. Increasing the line width (LW) creates more space at the bottom of the image. It has the effect of pulling the bottom edge of the scan window downward.



Altering Pixel Width

Problem:

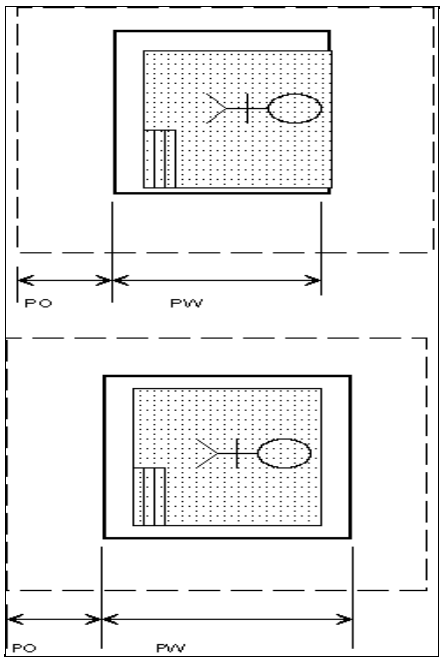
The right side of the image has been cut off [as a result of altering the pixel offset (PO)].

Solution:

Increase the pixel width (PW) and re-scan image.

Effect:

Increasing the pixel width creates more space to the right of the image. The pixel offset was not changed; therefore, the left side of the image remains unaffected.



This page is intentionally blank.

Appendix D.—Care and Maintenance

This page is intentionally blank.

Appendix D provides general guidelines for the care and maintenance of the JEDMICS scanners:

- High-speed aperture card scanner
- Large format scanner
- Dual-sided page scanner

PRC and its designated hardware maintenance subcontractor will perform regular preventive maintenance (PM) in accordance with the contract. PM is scheduled in accordance with system usage and installation date, therefore, each site should maintain its own PM schedule and log book.

Equipment:

High-Speed Aperture Card Scanner

Make/Model:

Photomatrix Vision

Preventive Maintenance:

Regularly scheduled PM is performed by PRC's designated hardware maintenance subcontractor.

Routine Maintenance:

Daily

Light calibration.

Speed calibration.

Every 5,000 Cards

Clean all sensors.

Clean all card gate glasses.

Clean the Hollerith reader.

Clean and lubricate slide, if needed.

Every 30 Days or 600 Hours

Change exposure lamp and check interlock wires.

Check light voltage and balance with histogram scan.

Replacing the Lamp

A qualified technician should check the lamp voltage after the lamp is installed.

1. Power OFF the scanner.
2. Open scan area front door.
3. Remove the lamp-house assembly cover by removing the regular slotted screw located on the front of the housing.

Do not touch the lamp with bare hands. Use cotton gloves or a clean cloth.

4. Remove the old lamp from the bayonet socket and replace with a new lamp.
5. Install the lamp-house assembly cover and cover screw.
6. Close the front door to scan area.
7. Power ON the scanner.

Refer to the manufacturer's operations manual for further detail.

Equipment:

Large Format Scanner

Make/Model:

Vidar 6220 SP

Preventive Maintenance:

Regularly scheduled PM is performed by PRC's designated hardware maintenance subcontractor.

Routine Maintenance:

The scanner should be turned OFF while performing maintenance.

Daily

When scanning many drawings or documents, lift the top cover by the handle in the center at regular intervals and check the glass of the scanning window to make sure it is clean. If dirt is visible, clean the glass with a soft cloth and glass cleaner.

Weekly

Wipe the document transport system elements with a dry cloth and alcohol wipes.

Wipe the camera window with a good quality glass cleaner.

Wipe the scanner's exterior with a mild detergent to remove stains, ink, etc.

Monthly

Replace the cooling fan filters. This is important for two reasons.

(1) When dirt builds up in the filters some of it gets into the scanner and on the lenses and lamps, reducing image quality, and

(2) If the filters get very dirty, the electronics may overheat and be damaged.

Verify that the circulation fans provide sufficient airflow.

Consult the manufacturer's operations manual for further detail.

Equipment:

Large Format Scanner

Make/Model:

Vidar 4250SV

Preventive Maintenance:

Regularly scheduled PM is performed by PRC's designated hardware maintenance subcontractor.

Routine Maintenance:

The scanner should be turned OFF while performing maintenance.

Weekly

Clean the rollers (top and bottom) with a soft cloth dipped in alcohol.

Clean the camera window with alcohol or household glass cleaner.

Monthly

Clean the cooling fan filters. These are located on either side of the back panel. Remove any surface marks with mild detergent.

Verify that the cooling fans provide sufficient airflow.

Equipment:

Dual-Sided Page Scanner

Make/Model:

TDC DS-2610 or 2600

Preventive Maintenance:

Regularly scheduled PM is performed by PRC's designated hardware maintenance subcontractor.

Routine Maintenance:

Power OFF the scanner before beginning maintenance activities.

Open the top cover and the upper transport assembly.

Use compressed air to clean out sensors and paper path.

Wipe metal surfaces and belts with a damp cloth. Wipe the belts in the direction of paper travel only.

Ensure that no staples, paper clips, or paper debris are lodged in any of the transport mechanisms.

Remove the trays and open the lower transport assembly.

Open the lower transport assembly and remove any debris in the assembly or on the bottom of the unit.

Close the lower transport assembly, replace the trays, and close the top transport assembly and top cover.

Wipe the trays with a lint-free damp cloth.

Turn ON the unit and allow the lamps to warm up for two minutes.

Change lamps as required. The lamp is rated at 2,000 hours. Lamp life in actual months will be determined by unit usage.

Monthly

Every few months the mirror and lens may require cleaning and the lamps may require wiping with a soft cloth, using no pressure.

Cleaning the mirrors should only be performed when needed. The front surface mirrors are easily damaged by excess pressure or rubbing when cleaning. If mirrors must be cleaned, use compressed air to remove the surface dust.

If compressed air is insufficient method of removing the dirt on the mirror, use distilled water and wipe very gently with cotton balls or lint-free lens cleaning tissues. If water proves insufficient, use high-concentration isopropyl alcohol and again wipe very gently with cotton balls or lint-free lens tissues. Follow the alcohol with a water rinse. It is far better to repeat this several times than to risk excess pressure on the mirror.

Failure to use the mirror cleaning procedures for the front surface mirrors can result in scratches to the mirror.

Appendix E.—Troubleshooting

This page is intentionally blank.

This appendix is designed to help you troubleshoot and solve some of the problems you may experience while scanning drawings or documents in JEDMICS.

A list of error messages that may be encountered on the large format scanner (model 6220) and the aperture card scanner is also included. The dual-sided page scanner does not display error messages.

Large Format Scanner (Models 6220 and 4250SV)

Problem:

Startup Failure.

Solution:

1. If at any point during the scanner start up, two consecutive beeps are heard or if the keypad display does not show the `Scanner Ready` message after calibration has completed, complete these steps:

   a. Turn the scanner OFF.

   b. Wait 60 seconds.

   c. Turn the scanner ON again.

2. If the above steps do not work, contact your system administrator.

Large Format Scanner (Models 6220 and 4250SV) or High-Speed Aperture Card Scanner

Problem:

Poor Compression QA Flags.

Solution:

Poor compression QA flags are a result of tiles not compressed significantly. Because the QA flag is set from the scan controller, the software checks the size (in bytes) of each tile in the image. If one or more tiles has a size greater than 16 KB, the poor compression QA flag will be set.

On the High-Speed Aperture Card Scanner:

View the image first, to ensure the QA flag setting isn't the result of busy content or a black or dirty border.

To remove the QA flag, re-scan the image, setting the dynamic tracking feature to On or Off (depending on the setting of the original scan).

On the Large Format Scanner (Models 6220 and 4250SV):

View the image first, to ensure the QA flag setting isn't the result of busy content or a black or dirty border.

To remove the QA flag, re-scan the image, adjust the threshold level Up or Down (depending on the setting of the original scan).

Large Format Scanner (Model 6220)

Problem:

Images are too light or contain too much background gray noise.

Solution:

Images may be cleaned up by changing the media type. Some drawings, however, remain obscure after all media types have been changed. In those cases, the manual keypad is used.

At the Scan Parameters screen, click on the Media pull-down menu.

1. Select **Manual/Keypad**. (Ensure that the real-time display monitor is ON.)
2. Click **Finished**.
3. On the scanner manual keypad, press **Media Type**.
4. Press **Media Type** until `User1 - A31` displays on the LED. The default is 31, however, the number following A may be different.
5. Press **Enter**.
6. Input an **A** from the keypad and press **Shift**.
7. A # sign appears in the upper right corner, which means the Numeric mode is activated.
8. Enter a number between 1 and 63. Press **Enter**. The lower the number, the darker images will be. The higher the number, the lighter images will be.
9. Press **Stop/Cancel**.
10. Begin scanning.
11. Repeat this process until the image is acceptable.

High-Speed Aperture Card Scanner

Problem:

Card jams.

Solution:

1. Remove the jammed card and replace it in the input hopper.
2. Click **Reset** on the Interactive Scan or Batch Scan screen.

   OR

Early and Late feed jams usually cause two errors, forcing reset twice. Try resetting a second time before rebooting. (Often a jammed card is still in the feed path — clear input, feed area, and output areas.)

3. If the Reset procedure does not correct the problem, complete these steps:
   a. Turn the scanner OFF.
   b. Wait 60 seconds.
   c. Turn the scanner ON again.

Avoid storing paper clips, rubber bands, or staples on or near the scanner. These items could fall into the feeder path causing card feed problems.

Problem:

After running the HSACS application, exiting from the application and Microsoft Windows, then restarting both causes SCSI time out errors.

Solution:

Reboot the controller before restarting Microsoft Windows and the HSACS application.

High-Speed Aperture Card Scanner

Problem:

Entry of oversize line and pixel widths and offsets may cause the HSACS to freeze. JEDMICS performs validity checks on user-defined Scan Parameter window size settings, the maximum settings may still exceed the capabilities of individual scanners. If this occurs, the HSACS will freeze, requiring reset by the user.

Solution:

To reset the HSACS:

1. Exit JEDMICS and Microsoft Windows.

2. At the MS-DOS prompt, start Photomatrix Dumb Terminal (dt).

3. From the Dumb Terminal command line, enter the following commands:

   OF 0500
   RF 0100
   SI 1D00
   LW 2000
   AR 0103
   BA 0500
   RS

4. Display and verify the new settings using the command ST.

5. Exit Dumb Terminal, reboot the Photomatrix using the reset button, and resume operations.

   These commands set valid values for each of the following:

   `OF` - line offset
   `RF` - reduction factor
   `SI` - pixel width
   `LW` - line width
   `AR` - aspect ratio
   `BA` - pixel offset
   `RS` - reset scanner

Dual-Sided Page Scanner

Problem:

Paper jams.

Solution:

1. Remove the jammed paper from the automatic document feeder or scan mechanism.

2. If the document is caught in the scan rollers, the operator must open the scanner cover and carefully remove the paper.

3. After the jam is cleared, select **Reset** on the Interactive Scan or Batch Scan screen to re-initialize the scanner. If the BCN is still open, scanning may resume. If the controller requires rebooting, the user must reenter the correct BCN to resume scanning into a specific batch.

Problem:

Multiple sheets being fed into the scanner.

Solution:

1. Ensure that the rollers are clean and that the proper roller tension has been set.

2. Remove the stack of documents and fan or ruffle the paper.

Problem:

Streaks on scanned images.

Solution:

The streaks may be caused by dirt in the paper path that collected on the scanning window.

Also the density setting may be set to 1 (darkest) and may need to be adjusted.

Error Messages on Aperture Card Scanner

Message	Explanation	Action
`THE PHASE LOCK LOOP WAS NOT LOCKED DURING THE SCAN`	This error generally indicates a need to calibrate the speed on the scanner. This speed is the rate at which the slide passes in front of the lamp during scanning.	To calibrate the speed, type **CS** while in the Keyboard Input mode. If the speed calibration reports errors, e.g., `Phase lock loop not locked`, call the PRC Customer Response Center*.
`CARD JAM`	Card jams occur frequently.	Scan a different deck of cards. If the card jams still occur, contact PRC Customer Response Center*.

* Only your system administrator has the authority to report problems to the PRC Customer Response Center. You should notify your system administrator when you encounter these errors.

Error Messages on the Large Format Scanner (Model 6220)

Message	Explanation	Action
`HOST/DEVICE NOT READY Press RESET Key`	The host computer, or another device such as a plotter, is not ready to receive data from the scanner.	Check that all equipment is online and ready to receive data.
`MEMORY FULL Press RESET Key`	There is no more room for data in the VIP buffer memory.	This message usually indicates that a large (>E-size) sheet was scanned with framing turned off. Power OFF both the scanner and the I/O controller, then turn both ON. Rescan the sheet with either framing turned on or reduce the size of the image scanned.
`DATA OVERRUN Press RESET Key DATA LOSS`	This error is caused by hardware or software problems.	Contact the PRC Customer Response Center*.
`Press RESET Key LINE COUNT ERROR Press RESET Key`	This error is caused by hardware or software problems.	Contact the PRC Customer Response Center*.
`INTERFACE NOT FOUND Press RESET Key`	This error is caused by hardware or software problems.	Contact the PRC Customer Response Center*.
`EXPAND RAM ERROR Press RESET Key`	This error is caused by hardware or software problems.	Contact the PRC Customer Response Center*.
`RAM PARITY ERROR Press RESET Key`	This error is caused by hardware or software problems.	Contact the PRC Customer Response Center*.

* Only your system administrator has the authority to report problems to the PRC Customer Response Center. You should notify your system administrator when you encounter these errors.

This page is intentionally blank.

Appendix F.—JEDMICS Field Descriptions

This page is intentionally blank.

Appendix F provides a list of fields that appear on the Indexing Data screen.

Indexing Data Field	Description
# of Frames	A four-character field that identifies the number of frames in a sheet. Zero filled, right justified.
# of Sheets	A four-character field that identifies the total number of sheets in a multi-sheet drawing. Zero filled, right justified. (Input Guide)
Acc Kind	A two-character field that describes the type of accompanying document, e.g., AD for Addendum.
Acc Rev	A two-character field that shows the revision level of an accompanying document. If the revision level is a single character, the field gets zero filled.
Accompanying Document Number	A 32-character field that shows a number assigned to an accompanying document. This number should not be the same as the base document number.
Air Type	A five- or six-character, left-justified, alphanumeric field that identifies an aircraft type/model or device; a code that identifies an aircraft by broad performance or use characteristics.
APL	An alphanumeric, 35-character, left-justified field that shows the Navy's Weapon System Allowance Parts List reference number.
CAGE	A five-character field that shows the Commercial and Government Entity (CAGE) code. Used with the drawing number, it identifies the specific manufacturer, government agency, or activity associated with a drawing.
Ctrl Code	A list box that identifies the control activity code of the engineering data repository that maintains the official record copy of the data. See the glossary for valid codes. (MIL-HNDB-331D)
Distribution	A field that shows the distribution statement code, which specifies a document's availability for distribution, release, and disclosure without additional approvals. Values for the distribution statement codes, which are based on the DoD Directive 5230.24 and MIL-STD-1806, are as follows: A—Unlimited B—U.S. Government Agencies Only C—U.S. Government Agencies and Their Contractors D—DoD and DoD Contractors Only E—DoD Components Only F—Commander-Approved Parties X—U.S. Government Agencies and Certified Contractors

Indexing Data Field	Description
Doc Type	An index record field of up to three characters that identifies the document type. Can be null. Common document types include the following: 1N—Revision Notice DL—Data List EL—Equipment List GL—Gauge List IL—Index List ML—Material List PL—Parts List RL—Running List WL—Wiring List
Document Number	The alphanumeric identifier assigned to a document. May be up to 32 characters and include spaces, dashes (-), and certain other punctuation.
Document Title	A 40-character description of the document or drawing. (Input Guide)
Drawing size	A one-character field that identifies the sheet size of a drawing. Sizes include the following: A—8½ x 11 inches B—11 x 17 inches C—17 x 22 inches D—22 x 34 inches E—34 x 44 inches F—28 x 40 inches G—11 x 90 inches H—28 x 143 inches J—34 x 176 inches K—40 x 143 inches R—All other sizes
Dwg Rev	A two-character field that identifies the revision level of a drawing. (Input Guide) Single-digit values are right justified and blank filled. Beginning with JEDMICS Release 2.5, drawing revision is equal to sheet revision.
Frame #	A four-character field that identifies the frame number of a frame in a multiframe drawing or sheet. Zero filled, right justified.
Group	A four-character field that shows the group designation of a drawing. (Input Guide)
Hull #	A numeric value that is part of a ship's identifying code. (Input Guide)
Rev Date	A system-generated date that identifies when the drawing was last revised. (Input Guide)
Rights	A list box that identifies the user access rights needed to mark a document. (Input Guide)

Indexing Data Field	Description
Sec Level	A one-character code for the security classification of a drawing or document. The 11 MIL-STD-804B codes are as follows: N—Unclassified C—Confidential M—Confidential—Modified Handling Authorized S—Secret T—Top Secret E—Confidential Restricted Data F—Secret Restricted Data G—Top Secret Restricted Data H—Confidential—Formerly Restricted Data J—Secret—Formerly Restricted Data K—Top Secret—Formerly Restricted Data
Sheet Number	A 12-character field that shows the number of one sheet in a multi-sheet drawing. Upon input of an alphabetic or numeric sheet number, the field is zero filled and right justified to four places. For example, A becomes 000A; 23 becomes 0023.
Ship Type	The class of ship to which a document applies. Together, ship type and hull number identify a specific ship. (Input Guide)
Sht Rev	A two-character field that shows the revision level of one sheet within a multi-sheet drawing. (Input Guide) Single-digit values are right justified and blank filled.
Subsheet #	(1) A three-character field that identifies the sub sheet of a multisheet drawing. Upon input of an alphabetic or numeric sub sheet, the field is zero filled and right justified to three places. For example, A becomes 00A; 23 becomes 023. (Input Guide) (2) For accompanying documents, this field must equal the base document drawing revision of the document that the accompanying document is associated with.
Weapon System Code	(1) A 15-character field that shows the weapon system or systems that the document is related to. (2) The Weapon System Code related to a particular repository data set.

This page is intentionally blank.

Appendix G.—Glossary of Terms

This page is intentionally blank.

Appendix G provides a comprehensive list of terms and definitions used throughout JEDMICS.

Numerics

804B	A scan mode that inputs the Hollerith data strictly in accordance with MIL-STD-804B.
804C	Military Standard for Formats and Coding of Aperture, Camera, Copy, and Tabulating cards. Supersedes MIL-STD-804B.

A

accompanying document	Supplemental technical information that may be required when referring to or using a base document. Cover sheets, disclaimer forms, order sheets, and other listings that relate to or are part of the drawing are considered accompanying documents.
ACO	Aperture Card Output [device]
ADF	Automatic document feeder on the dual-sided page scanner (DSPS).
ADL	Automated Disk Library. The largest JEDMICS optical storage device (jukebox).
algorithm	A specific set of well-defined, simple mathematical and logical procedures that can be followed to solve a problem in a finite number of steps.
aperture card	A paper card the size of a punch card with a rectangular opening that holds a 35 mm frame of microfilm. Retrieval information can be punched into the card.
APL	Allowance Parts List
automatic document feeder	A tray or chute that holds documents for automatic feeding into the scanner flatbed.
automatic thresholding	A feature that allows a scanner to automatically determine the pixels that are white and the pixels that are black when changing or converting a grayscale image to a binary image.
AUX	Auxiliary drive

B

background	The pixel value that is not used to create or display graphic images and text.
background noise	Speckling that occurs during the copying of a source document.
baseview	The original size of an image. The zoom factor at which an image is initially displayed and at which the panning commands work the quickest. The Baseview zoom factor is always 1:1.
batch	A group of records or documents considered as a single unit for the purposes of processing.
batch control number	JEDMICS identifies a technical drawing or group of drawings by a unique number. This batch number stays with the group of drawings (or documents) being scanned until they are migrated to permanent storage. After migration they are identified by drawing (or document) number.
batch processing	Conducting a group of computer tasks at one time, instead of one at a time. For example, scanning a group of cards or drawings into one batch that is identified by a unique batch control number (BCN).
BCN	Batch control number
blueprints	A blueprint is a photographic print in white line on a bright blue background, or the reverse (blue line on white background). It is used for copying maps and mechanical drawings. Blueprint paper is very high in fiber density.
brightness	The balance of light and dark shades in an image.

C

CAGE	Commercial and Government Entity. A unique numeric code that is assigned to identify each government and commercial entity.
calibration	(1) A process that adjusts the color or black and white values in the image to compensate for changes that software packages and printers make to these values. (2) Rescale or normalize the output of light-sensitive elements in scanner cameras.

CALS	Continuous Acquisition Life-cycle Support, formerly Computer-aided Acquisition and Logistic Support
CD	Compact Disk. An optical disk on which images are digitally recorded.
chad	The scraps of confetti resulting from hole punching data cards.
CMNF	Compressor Module Null Tiling Off. A command used in the Dumb Terminal program on the aperture card scanner. (HSACS)
compression	A technique for replacing data with compression codes that use less file space; at a later time the original data can be recreated from the compression codes.
contrast	The range of distinction between the lightest and darkest tones in an image. In a scanned document, contrast refers to making the foreground distinguishable from the background.
contrast enhancement	Changes the grayscale value of pixels to emphasize differences in tone in the document image. (LFS)
Control activity codes	Control activity codes are used to identify engineering data repositories that maintain the official record copy of data (camera masters). These codes are based on MIL-HDBK-331D. The field is left justified in accordance with MIL-M-38761/2A. A null or blank entry is also allowed. The valid entries are listed in the following table.

Control Activity Code	Repository
MB	Engineering Data Support Ctr, Kelly AFB, TX
MC	Engineering Data Support Ctr, McClellan AFB, CA
ME	Engineering Data Support Ctr, Hill AFB, UT
MF	Engineering Data Support Ctr, Tinker AFB, OK
MG	Engineering Data Support Ctr, Warner Robins AFB, GA
CT	US Army Aviation Systems Cmd., St Louis, MO
DC	US Army Missile Cmd, Redstone Arsenal, AL
DF	US Army Tank-Automotive Cmd, Warren, MI

Control Activity Code	Repository
DG	US Army Information Systems Cmd, Rock Island, IL
DJ	Harry Diamond Laboratories, Adelphi, MD
DM	US Army Information Systems Cmd-Dover, Picatinny Arsenal, NJ
DT	Benet Weapons Laboratory, Watervliet, NY
DU	US Army Communications-Electronics Cmd, Fort Monmouth, NJ
DZ	US Army Chemical Research Development and Engineering Ctr, Aberdeen Proving Ground, MD
D4	US Army Belvoir Research, Development, and Engineering Ctr, Fort Belvoir, VA
RH	US Army Natick Research Development and Engineering Ctr, Natick, MA
RJ	The Institute of Heraldy, US Army, Alexandria, VA
RK	US Army Information System Engineering and Integration Ctr, Fort Huachuca, AZ
SW	US Army Communications-Electronics Activity, Warrenton, VA
DY	Naval Ship Weapon Systems Engineering Station, Port Hueneme, CA
HR	Newport News Shipbuilding, VA
KJ	Naval Air Technical Services Facility, Philadelphia, PA
KL	Naval Ordnance Station, Louisville, Ky
QG	Portsmouth Naval Shipyard, Portsmouth, NH
QK	Naval Facilities Engineering Command, Alexandria, VA
QM	Atlantic Division, Naval Facilities Engineering Command, Norfolk, VA
QN	Chesapeake Division, Naval Facilities Engineering Command, Washington, DC
QO	Northern Division, Naval Facilities Engineering Command, Philadelphia, PA
QP	Southern Division, Naval Facilities Engineering Command, Charleston, SC
QQ	Mid-Pacific Division, Naval Facilities Engineering Command, Pearl Harbor, HI
QR	Western Division, Naval Facilities Engineering Command, San Bruno, CA
QS	Space & Naval Warfare Systems Command, Washington, DC

Control Activity Code	Repository
QT	Naval Sea Combat Systems Engineering Station, Norfolk, VA
QU	Naval Research Laboratory, Washington, DC
QV	Naval Training Systems Center, Orlando, FL
RL	Defense Construction Supply Ctr, Columbus, OH
RM	Defense Electronics Supply Ctr, Dayton, OH
RN	Defense General Supply Ctr, Richmond, VA
RO	Defense Industrial Supply Ctr, Philadelphia, PA
PA	Marine Corps Logistics Base, Albany, GA
PR	PRC JEDMICS

controller — A required computer device that operates a peripheral device. Device in which a peripheral's memory is stored.

COTS — Commercial off-the-shelf

CRC — Customer Response Center

CS — Speed Calibration. A command used in the Dumb Terminal program on the aperture card scanner. (HSACS)

CX — Light Calibration. A command used in the Dumb Terminal program on the aperture card scanner. (HSACS)

D

data — A general term referring to any representation of facts, concepts, or instructions presented in a form suitable for communication.

decompression — Recreating a raster-format image from the compressed form of the image by decoding the identifiers and the number of repeated dots into the original dot strings. There are as many algorithms for doing this as there are compression algorithms. These algorithms are often implemented in hardware or firmware to improve performance.

default	A value, parameter, attribute or option that is automatically supplied by the system when another has not been specified.
device	The general name for any peripheral connected to the processor that is capable of receiving, storing, or transmitting data. Printers, visual display devices, and plotters are examples of output devices, while scanners are examples of input devices.
dialect	Hollerith data formats that introduce data fields with unspecified interpretations or that move an existing MIL-STD-804C field to a new field position.
DICW	Data Integrity Control Workstation. A workstation used for quality assurance and editing scanned images.
digitize	To transform a continuous-tone image into computer readable data using a device called a scanner.
distribution	A statement used in marking a technical document or drawing to specify the extent of its availability for distribution, release, and disclosure without additional approvals. Values for the distribution statement codes are based on the DoD Directive 5230.24 and MIL-STD-1806. These codes are: A—Unlimited B—US Government Agencies C—US Government Agencies and Contractor D—DoD and DoD Contractor E—DoD Components only F—Commander Approved X—US Government Agencies and Certified Contractors A null or blank entry is also allowed.
document number	Document number and drawing number are synonymous. See drawing number.
document transport	The flat area where the drawings are placed to be scanned. (LFS)
DOS	Disk Operating System. Usually refers to the program that runs on IBM-PC compatible microcomputers.

drawing	An engineering drawing (or document) made up of one or more sheets that can consist of multiple frames.
drawing number	A 32-character alphanumeric field that identifies a drawing permanently stored in JEDMICS.
DSPS	Dual-sided page scanner
dumb terminal	A terminal lacking its own central processing unit (CPU) and disk drives is called a dumb terminal and is restricted to interacting with a distant multisource computer.
dynamic thresholding	Firmware adjusts the response to varying grayscale values to select the optimum point to differentiate image data from background.

E

EGDW	Engineering Graphics Display Workstation

F

feed hopper	A slot on an aperture card scanner that holds up to 500 aperture cards.
FIFO	First-in/first-out order
file	A set of data elements arranged in a structure significant to the user. A file is any named, stored program or data, or both, to which the system has access.
frame	A subdivision of a drawing that is larger than E-size in one or both dimensions (34-inches by 44-inches).

G

GDW	Graphics Display Workstation
grayscale	The spectrum, or range, of shades of black within an image. Scanners' and terminals' grayscales are determined by the number of gray shades, or steps, they can recognize and reproduce.

H

Hollerith card	A punched 80-column card used to store information for input into a computer.
Hollerith code	A code in which a character is represented by a unique combination of punched holes in one column on a punch card.
Hollerith data	The method by which information is recorded (punched) on aperture cards. Hollerith data consists of 80 rows of punched information on an aperture card.
Hollerith string	The 80-character string of data read by the JEDMICS high-speed aperture card scanner from an aperture card and used by JEDMICS for indexing.
hopper	A receptacle that holds materials in readiness for disbursement. For example, a toner hopper disburses toner and a card hopper disburses cards.
HSACS	High-speed aperture card scanner

I

icon	The basis of a graphical user interface (GUI), an icon is a picture or drawing of a device or program that is activated, usually with a mouse, to access the device or run a program.
ID	Identification
IGES	Initial Graphic Exchange Specification. A neutral file format for the representation and transfer of product definition data among CAD/CAM systems and application programs (MIL-STD-1840).
image	The computerized representation of engineering data displayed on the screen as a series of dots (pixels). An image is made up of one or more frames.
image enhancement	Any tool that is used to suppress the background or to distinguish desired foreground objects from undesired ones.
image ID	A unique image identifier that consists of the drawing number, CAGE, drawing revision, document type, sheet, and frame.

index data	A descriptive set of data associated with a document for locating the document's storage location.
information messages	Messages that provide the system status and/or prompt the user for a response.
input workstation	The microcomputer or terminal at which paper or microform documents are scanned and computer files are entered. This is also the place where the index data is assigned to the drawing or document.
I/O	Input/Output

J

JEDMICS	Joint Engineering Data Management Information and Control System. Provides the means for the acquisition, storage, management, and distribution of engineering technical data and the wide variety of other published material related to defense systems.
jukebox	A device for reading from and writing to optical disk platters that are automatically loaded into a read/write unit from a storage area.

K

keypad	A small keyboard located on the right side of the document transport. It has a liquid crystal display (LCD) that displays prompts, messages, and options.
KOSI	Kodak Optical Storage Interface

L

LAN	Local area network. Facilitates high-speed transmissions over twisted pair, coax, or fiber optic cables connecting the Index Server, optical storage devices, workstations, servers, and peripherals.
landscape	The page orientation in which the x axis is longer than the y axis.
LCD	Liquid Crystal Display. Used on output devices for displaying printstation messages.
LF	Lamp Off. A command used in the Dumb Terminal program on the aperture card scanner. (HSACS)

LFS	Large format scanner
light normalization	An algorithm that compensates for the lack of uniform light intensity across the scan line.

M

masking plate	A protective plate, located inside the developer module of the aperture card scanner. This plate prevents light from entering the developer module as it processes the aperture card film.
media	The type of storage material, such as paper, disk, and tape, used to store data.
menu bar	The horizontal bar near the top of a window that contains the names of all the application menus. It appears below the title bar.
mouse	Hand-driven input and pointing device for personal computers and workstations.
multisheet drawing	A raster image consisting of two or more drawings in separate files.
mylar	A DuPont trademark for a polyester made in extremely thin sheets that can be coated with magnetic material and used in various storage output devices.

N

NBD	No Base Drawing status code. A status that is assigned when the accompanying document is scanned and the base document is not in JEDMICS.
network	A computer-based communications and data exchange system created by physically connecting two or more workstations.

O

orientation	In this application, orientation refers to how a document is oriented to the scanner, not page orientation.
overview	The low resolution image used when you first view the image in the PRC Digital Image Viewer program.

P

parse	To separate imported data.
password	A secondary identification word associated with a user name. A user logging on to JEDMICS must supply the correct password before access is permitted.
pixel	The smallest picture element that can be displayed on your screen.
portrait	The page orientation in which the y axis is longer than the x axis.
punchcard	A rectangular card used to store data by the presence or absence of small holes that can be punched in specific locations on the card. The presence or absence of the holes is sensed photoelectrically by a card reader.

Q

QA	Quality assurance. Maintained throughout JEDMICS using the Pending Data Integrity Control functionality.

R

raster	An image area formed by scanning the source image one line at a time. Digital scanning scans the source image one dot at a time and arranges the dots in rows and columns to form the raster.
RDBMS	Relational Database Management System [from Oracle Corporation]
reduction ratios	Ratios used to reduce images onto aperture cards.
resolution	A measure of how many dots per inch are scanned or printed. The higher the dpi, the more detail is visible in the image.

Rights	Values for the Rights field are: G—Government Data U—Unlimited Rights Data L—Limited Rights Data P—Proprietary Data K—Limited N—Limited R—Unlimited S—Limited T—Limited W—Limited X—Limited Z—Limited
rotation	Causes an image to be rotated clockwise 90 degrees to properly orient it for output to an ACO device. This scan parameter is set on the dual-sided page scanner.

S

scan	Convert human-readable images into bit-mapped or ASCII machine-readable code.
scan line	A single row of pixels across a document; the scanner cameras view one line at a time.
scan mode	Reflects the dialect scheme the scanner will use to interpret the punched Hollerith data.
scanner	A device that digitizes engineering data (drawings and text) and stores the result as a file.
security level	A one-character field for the code representing the security classification of the drawing or document. The 11 MIL-STD-804C codes are: N—Unclassified C—Confidential M—Confidential - Modified Handling Authorized S—Secret T—Top Secret E—Confidential Restricted Data F—Secret Restricted Data G—Top Secret Restricted Data H—Confidential - Formerly Restricted Data J—Secret - Formerly Restricted Data K—Top Secret - Formerly Restricted Data

sepia	This media may be a map or a mechanical drawing reproduction with brown line on white background or the reverse (white line on brown background). Sepia paper is usually translucent and high in rag content. Second master copies are sometimes reproduced on sepias.
sequence data	Data that follows a specific order and cannot deviate from that order.
server	A system on a network that provides other computer systems with processing resources.
sheet	An engineering drawing is usually made up of multiple sheets.
sheet number	All sheets are numbered consecutively starting with 1. The first sheet indicates the total number of sheets. When sheets have been added or deleted by revision action, the total number of sheets may differ from the number assigned to the last sheet.
sheet revision	Identifies the sheet revision level of the drawing for multisheet drawings.
ST	Status. A command used in the Dumb Terminal program on the aperture card scanner. (HSACS)
STAR	Smart Tracking and Resolution. A module used to improve image data on a Photomatrix aperture scanner. The STAR module's tracking function continuously monitors the background and user-selected darkness settings to optimize the dynamic image thresholding and clarify features.
STHN	Ship Type Hull Number
subsheet	A portion of a drawing. For accompanying documents, this field stores the value of the base drawing revision that the accompanying document is associated with.

T

threshold	A predefined level set in a scanner's software to determine whether a pixel will be represented as black or white.

thresholding	The process of determining which pixels are white and which are black when changing a grayscale image to a binary (black and white) image.
tiling	Reproducing oversized engineering drawings (or documents) by breaking the image area into parts (called tiles). Adjacent tiles repeat a small portion of the image, and they may contain crop marks as well. The repeated portion of the image (the overlap) and the crop marks aid in reconstructing the overall image from the tiles.

U

UC	Unload Card. A command used in the Dumb Terminal program on the aperture card scanner. (HSACS)
user ID	Unique identifier for any JEDMICS user.

V

vellum	Vellum is either part paper and part rag, or 100 percent rag. It is impregnated with resin or oil to improve inking and add strength and transparency.

W

Windows	A windowing environment and application program interface (API) for DOS that brings to IBM-format computing some of the graphical user interface (GUI) features of the Macintosh, such as pull-down menus, multiple typefaces, desk accessories (a clock, calculator, calendar, and notepad, for example), and the capability to move text and graphics from one program to another with the Clipboard.
workstation	A computer terminal linked to a central processor or file server.
WORM	A write-once, read-many optical storage disk.

Index

Symbols

.*ini* files
browsing 17, 45, 70

A

Accept button
aperture card scanner 26
accepting
image 25, 29, 52, 56, 75, 78, 81, 196
accompanying document
aperture card scanner 22
large format scanner 52
page scanner 74
adding
index data 25, 52, 56, 75
ADL 3
allowing Hollerith without image 12
Aperture Card Output (ACO) 68
aperture card scanner 5, 9
aperture cards 2, 40, 195
appending to
batch control number . . 28, 29, 32, 54, 58, 77, 80
A-Type card 5
audit data 11, 38, 65
Auto number button
aperture card scanner 26, 31
large format scanner 54
page scanner 79

B

batch control number 27, 30, 31, 54, 58, 77, 79
Batch Scan Screen 30, 78
Auto number button 79
BCN 79
Finished button 79
Last BCN 79
Reset button 79
Scan parameters button 79
Sequence # 79
Start batch button 79
batch scanning
aperture card scanner 5, 11, 30
page scanner 78
BCN 31
aperture card scanner 26
blueprint drawings 33
browsing
.*ini* files 17, 45, 70

C

calibrating
scanner (LFS) 34
calibration card 7
calibration speed 8, 209
CALS 2
card formats
A-Type 5
H-Type 5, 12, 14, 50
T-Type 5
cleaning
mirrors 214
Close batch button
aperture card scanner 26
large format scanner 57
page scanner 75
compressing
image files 33
configuration
aperture card scanner 10
large format scanner 35
page scanner 62
conventions
keyboard x
mouse x
typographic ix
correcting
QA flags 193

D

Data Integrity Control Workstation 2
Data Integrity Subsystem 1, 2
dialect 14, 28, 83
38761/1 (dialect 21) 86, 98, 100
38761/2A 86
688_Class_Tvd (dialect 7) 86, 94
804B 86
804C 86, 90, 92
ARDEC_A (dialect 68) 88, 174
ARDEC_B (dialect 65) 88, 168
ARDEC_Frankford (dialect 64) 88, 166
ARDEC_Picatinny (dialect 67) 88, 172
ARDEC_T/ECP (dialect 62) 88, 162

ARDEC_TL (dialect 63) 88, 164
ARDEC_Weapons (dialect 66) 88, 170
ATCOM_H (dialect 59) 88, 156
ATCOM_T (dialect 58) 88, 154
CECOM_H (dialect 53) 88, 144
CECOM_H Expanded (dialect 69) 88, 176
CECOM_T (dialect 54) 88, 146
CG/47_993_Class (dialect 28) 86, 106
DSREDS Tape Format 188
Fairborn Tape Format 186
FFG_&_Class (dialect 29) 87, 108
Marine_Corps_T (dialect 30) 87, 110
MAXIMA (Air Force) Tape Format 190
MICOM_T (dialect 42) 122
MIL-STD-1840B Tape Format 184
NADEP_P3/T (dialect 52) 87, 142
NADEP_T (dialect 51) 87, 140
NNSY_LHD (dialect 25) 86, 104
NNSY_NAVSEA (dialect 24) 86, 102
Normal 86
NTSCO_T/B (dialect 39) 87, 120
NTSCO_T/T2 (dialect 37) 87, 118
OC_ALC_H (dialect 46) 87, 128
OC_BO_H (dialect 47) 87, 130
OO_ALC_H (dialect 56) 88, 150
PHD_NSWC/T (dialect 35) 87, 116
PHD_NSWC_W/O (dialect 33) 87, 112
PHD_NSWC_With (dialect 34) 87, 114
PSNS_Trident (dialect 19) 86, 96
PSNS_Trident_TV (dialect 20) 86
RIA_H (dialect 49) 87, 136
RIA_T (dialect 48) 87, 134
RIA_WP_T (dialect 50) 87, 138
SA_ALC_H (dialect 57) 88, 152
SM_ALC_H (dialect 55) 88, 148
Special_T 86
Special_T Rej 86
Standard A 178
Standard H 180
Standard T 182
TACOM_H (dialect 61) 88, 160
TACOM_T (dialect 60) 88, 158
WR_ALC_H (dialect 44) 87, 124
WR_ALC_T (dialect 45) 87, 126
DICW. *See* Data Integrity Control Workstation
document feeder
page scanner 66, 76
double-sided
scanning 76
drawing number 5, 241
drawing size 5, 6, 12, 13, 14, 16, 26, 40, 43, 51
dual-sided page scanner
defined 61
dumb terminal program 7, 8
dynamic tracking 14, 195
aperture card scanner 12

E

EDGW. *See* Engineering Graphics Display Workstation
engineering drawings 33
Engineering Graphics Display Workstation 3
entering indexing data 19
error messages
aperture card scanner 224
large format scanner (model 6220) 225
E-size drawing 33, 40, 43, 47

F

fanning cards 27
filters (large format scanner)
cleaning 212
Finished button 31
aperture card scanner 27

G

GDW. *See* Graphics Display Workstation
generating
batch control number 25, 52, 56, 75
Generic Output Server
remote job enqueuing 3
Graphics Display Workstation 3
grayscale value 41
grid lines 39

H

Hollerith data 2, 5, 15, 22, 26, 32
modifying 22, 28
hopper 7, 15, 26, 27, 29
aperture card scanner 6
capacity 6
scan rate 6
HSACS. *See* aperture card scanner
H-Type card 5, 12, 14, 50

I

icon
JEDMICS 8, 35, 63
IGES (Initial Graphic Exchange Specification) 3
image
dark 12
light 12
Image Server 3, 10, 29, 36
Index Data button 31
aperture card scanner 27
large format scanner 40, 53
page scanner 68
Index Server 3, 29
Index Subsystem 1, 3
indexing data 5, 39, 43, 48, 69, 71
# of Frames 21, 50, 73, 229
# of Sheets 20, 50, 73, 229
Acc Kind 21, 50, 73, 229
Acc Rev 21, 50, 73, 229
Accompanying Document Number 21, 50, 73, 229
Air Type 21, 50, 73, 229
APL 21, 50, 73, 229
CAGE 20, 49, 72, 229
Ctrl Code 21, 51, 74, 229
Distribution 21, 51, 74, 229
Doc Type 20, 49, 72, 230
Document Number 20, 49, 72, 230
Document Title 20, 49, 72, 230
Drawing Size 20, 49, 72, 230
Dwg Rev 20, 49, 72, 230
Frame # 21, 50, 73, 230
Group 21, 50, 73, 230
Hull # 21, 50, 73, 230
Rev Date 20, 72, 230
Rights 21, 51, 74, 230
Sec Level 21, 51, 74, 231
Sheet Number 20, 50, 73, 231
Ship Type 21, 50, 73, 231
Sht Rev 20, 49, 72, 231
Subsheet # 21, 50, 73, 231
Weapon System Code 21, 51, 74, 231
Input Subsystem 1
interactive mode
aperture card scanner 5, 11, 25
large format scanner 52, 56
page scanner 75
Interactive Scan Screen (HSACS) 25
Accept button 26
Auto number button 26
Close batch button 26
Enter BCN field 26
Finished button 27
Index Data button 27
Load button 26
Modify button 26
Parameters button 27
Reject button 26
Reset button 26
sequence number field 26
Unload button 26
View button 26
Interactive Scan Screen (LFS) 52, 56
Accept button 53, 57
Auto number button 54, 57
BCN 53
Close batch 54
Close batch button 57
Finished button 54, 57
Index batch 53
Indexing data button 53, 57
Parameters button 53, 57
Reject button 53, 57
Reset button 57
Rotate 53
Scan button 53, 57
Sequence number 57
Sequence number field 53
View 53
View button 54, 57
Interactive Scan Screen (page scanner) 75
Accept button 75
Auto number button 76
Close batch button 75
Enter BCN field 75
Finished button 76
Index data button 75
Parameters button 76
Reject button 75
Reset button 75
Scan button 75
Sequence number field 75
View Back button 75
View Front button 75
introduction to JEDMICS
system overview 1

J

JEDMICS 5
JEDMICS documentation set viii
jukebox 3

K

keypad 39, 44, 47

L

lamp off 8
large format scanner
defined 33
LFS. *See* large format scanner
light calibration 7, 209
line offset 13, 16, 199
decreased 202
line width 13, 16, 199
increased 204
lines
blurred 14
broken 14
sharp 14
solid 42
uneven 12
Load button
aperture card scanner 26
loading
aperture cards 25, 28
drawings 38, 44, 66
log off
aperture card scanner 11
large format scanner 38
page scanner 65
log on
aperture card scanner 8
large format scanner 36
page scanner 63

M

maintenance
scanners 209
media 43
clear mylar 33
matte mylar 33
mylar 40
paper mylar 33
vellum mylar 33, 40
microfilm 12, 15
MIL-STD-804B 5
MIL-STD-804C 5
Modify button
aperture card scanner 26
multi-sheet drawing 12, 39, 40, 43, 69, 71

N

node name 10, 36, 63
null tile processing 7

O

optical media 2
Optical Storage Subsystem 1, 3
orientation 39, 40, 42
card 15, 31
drawing 39
Output Subsystem 1, 3
override Hollerith data 15

P

paper jams 66, 82, 223
Parameters button
aperture card scanner 27
large format scanner 53, 57
page scanner 76
parse.log 12
password 9, 37, 64
pencil drawings 33
pixel offset 13, 16, 199
decreased 203
pixel width 13, 16, 199
increase 205
pixels 5
poor compression 195
PRC Viewer . . . 15, 29, 32, 43, 53, 55, 58, 69, 78, 80

Q

QA Reject Reason Report 12, 21
quality assurance 29, 78

R

raster files 3, 5
RDBMS 3
recalling settings
aperture card scanner 13, 17
large format scanner 46
page scanner 71
reduction ratios 6

Reject button
aperture card scanner 26
rejecting
batch 32
image 25, 29, 52, 56, 75, 78
Remote Facilities Subsystem 1, 3
replacing
lamp (HSACS) 210
lamps (page scanner) 213
Reset button 31
aperture card scanner 26
resolution 6
revision letter 49
roller
cleaning 34, 212
large format scanner 38
roll-in 40, 43
rotating
image 66, 69

S

saving settings
aperture card scanner 13, 16
large format scanner 44, 45
page scanner 69
scan parameters
aperture card scanner 11
large format scanner 39
page scanner 66
Vidar 4250SV 41
Vidar 6220 . . . . . 39, 42
scan parameters (4250SV)
enhancement 42
framing 42
paper 41
paper control 42
threshold 41
scan parameters (6220)
Doc. roll-in 40
Finished button 40
Frame 40
Index batch 40
Indexing 40
Indexing data button 40
media 40
Orientation 40
Recall button 40
Save button 40
View 40
scan parameters (HSACS)
Allow Hollerith (no image) 12
Card orientation 12
Dynamic tracking 12
Finished 13
Frequency 13
H-type 12
Index Screen 12
Multi_up 12
Recall button 13
Save button 13
Save Default button 13
Scan mode 12
Size settings button 13
Star Board status 12
STAR high delta 12
STAR low delta 12
Threshold 12
View 12
scan parameters (page scanner)
Finished button 68
Frequency 68
Index batch 67
Indexing 67
Indexing data button 68
Recall button 68
Rotation 68
Save button 68
Scan side 67
View 68
Scan parameters button 31
scanner
calibrating 7
interactive scan 56
large format 33
powering on 34
main power switch 7
scanner feeder hopper
scan rate 6
scanning
accompanying documents 22, 52, 74
double-sided pages 66, 76
single-sided pages 66, 76
screen saver 35
Sequence number 31
aperture card scanner 26
large format scanner 53
page scanner 75

setting
density controls 62
offsets 197, 200
parameters 52, 56, 75
aperture card scanner 11, 13
page scanner 68
Vidar 4250SV 46
Vidar 6220 42
widths 201
sheet number 5
single-sided
scanning 76
special-T mode 14
specks 12
STAR
settings 12, 14
Start batch button 31
starting
page scanner 62
scanner (HSACS) 7
scanner (LFS) 34
system overview 1
input subsystem 2

T

terabyte 3
threshold value 12, 14, 33, 41, 43, 44, 75, 195
timeout 10, 36, 63
title bar 9
troubleshooting
scanners 215
T-Type card 5
typeface
UPPER CASE ix

U

Unload button
aperture card scanner 26
unloading
card 30

V

v20set.ini file 13
Vidar 4250SV
scan parameters 41, 46
Vidar 6220
scan parameters 39, 42
View button
aperture card scanner 26
view monitor 33, 44
viewing 12, 29, 32, 39, 43
drawing(s) 66
image 15, 25, 52, 56, 69, 75, 78

W

window size 15, 16, 199
WORM 3

JEDMICS Documentation Feedback Report

*****Please complete and return to*****
PRC Inc., Standard Systems/Support Products, ATTN: Kathleen R. Rice
FAX # (800) 458-6464 or Mail Stop CT-101
roulet-rice_kathleen@prc.com shepard_annette@prc.com

Submitted by: _____ **Date:** _____

Department/Site:_____ **Phone:**_____

Document: _____

Section:_____

Page Numbers: _____

Feedback/Suggested Change: _____

Urgency (Please Circle One):

Immediate (JEDMICS Tech Bulletin and Next Baseline Release)

Future (Next Major Baseline Release)

*****For Support Products Use Only*****

DF Number: _____ **Date Received:**_____

Action Taken:_____ **Date Resolved:**_____
